

EN

LITOKOL®

Product Collection

Eco-friendly technology
for architecture and design

www.litokol.it





At Litokol, everybody is committed to contributing something unique to their company's development: more so than promoting growth or economic results, it's about transmitting values of excellence, respect for others, and the ability to meet people's needs. All this represents the heart of our company and the vision with which we look to the future.

Preview



Litokol Page 4



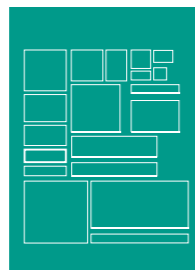
The company

Eco-sustainability Page 8



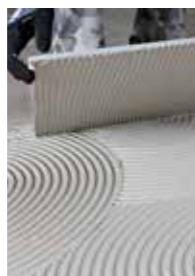
The Zherorisk® project, the new generation of EVO products to safeguard the health of operators, the quality of the air and safety in transporting goods. Litokol's commitment to safeguarding the environment.

Synopsis for choosing adhesives Page 15



The best product for all applications governed by the criteria of the UNI 11493 standard in force in Italy.

Installation systems Page 23



All the experience accumulated by Litokol in over fifty years of working for tile installers, to obtain the best result from the product families.

Product range Page 49



The range of Litokol products, divided by families, with basic technical information.

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History

Litokol's history, which began in 1968, is directly linked to the development and spread of Italian ceramic products worldwide.

Over the decades, the national and international distribution of Litokol products has gained significant ground also thanks to an offer that has gradually grown, alongside the development of the ceramics industry in Italy and the world.



Headquarters



Starlike department

Innovation & research

In recent years, a scientific study without precedent called Zherorisk® has allowed the company to complete its development towards the highest levels of innovation, laying the foundations for its future in terms of the eco-sustainability and safety of the entire family of Litokol products.



R&D



Training Centre

Eco-sustainability

Being able to produce materials with excellent performance in terms of their environmental compatibility has allowed the company to rigorously and knowingly work towards the attainment of **ISO 14001 environmental certification**, to then immediately be issued EPDs (Environmental Product Declarations) – green certifications par excellence – for all of its product lines.



Growth and development

To support the process of innovation generated by the Zherorisk® project, Litokol has implemented several strategic choices concerning all parties involved in the production cycle and chain.

With the expansion of the facility at the company's headquarters in Rubiera, an ultra-modern system was installed for the granulometry colouring of fine-grain quartz micro spheres based on an exclusive procedure representing an absolute novelty for this type of raw material.

Coloured quartz department



1968



1995





Vision & mission

For over fifty years, the relationships of trust developed, the skills demonstrated, the results obtained, have led Litokol to consolidate its Vision based around the philosophy of its founder: at Litokol, everybody is committed to contributing something unique to their company's development; more so than promoting growth or economic results, it is about **transmitting values of excellence, respect for others, and the ability to meet people's needs**.

All of this represents the heart of our company and the vision with which we look to the future.

Our Mission is to develop **innovative, high-performing products** for the ceramics and building industry, developing proactive strategies in three main directions: NEWs, new technologies, and new markets. Based on the matrix of these three different lines of evolution, adhesives, grouts, decorative products, and building solutions are developed, which, day by day, find their way to our clients worldwide.

Research & development

Zherorisk® is a research initiative carried out by Litokol's R&D division, with the participation of the University of Modena and Reggio Emilia, the DICAM (Department of Civil, Chemical, Environmental, and Materials Engineering) of Bologna and external research institutes.

The Zherorisk® platform is a technology projected into the future with the aim of developing an innovative generation of eco-sustainable building materials, at "zero risk".

The goal is to guarantee the safety of people through three aspects: **safeguarding the health of professional operators; the quality of air in homes, places of work and leisure; the transportation of goods**.

The study of raw materials and ways to combine them leads to the creation of a new family of innovative products, all with eco-sustainable features.



The Zherorisk® project identifies the diversity of Litokol's products: an investment in the safety of installers and people

Approved by



SANITIZED is the world's leading manufacturer of **antimicrobial hygienic functions and material protection for textiles and polymers**. The company has been a pioneer in this field for more than 80 years, developing innovative, efficient and safe technologies for **antimicrobial treatments**: antibacterial products, anti-mould and anti-fungi products, active ingredients against the deterioration of materials, anti-dustmite products, preservation of canned architectural paints and dry film.

Sanitized® is a brand, and at the same time a seal of trust used to label the final textile and polymeric products

Indoor pollution and Volatile Organic Compounds (VOC)

One of the main causes of indoor pollution is the emission of Volatile Organic Compounds (VOC).

These are chemical compounds of various types which are volatile, i.e. they evaporate easily into the air at room temperature. They can be found in many everyday household products, building materials and furnishings (e.g. furniture, carpets, coverings, insulation) which can cause continuous long-lasting emissions.

High VOC concentrations are predominantly found during the period immediately after laying certain materials or the installation of furniture. VOC emissions are at their highest at the beginning of the product's life cycle and so, one of the most critical moments is when the operator prepares and uses it, especially in closed or poorly ventilated areas. Afterwards, emission tends to fall significantly within a short space of time (from one week for paint and adhesives, to six months for other chemical compounds).

The challenge presented by the Zherorisk® research initiative was to drastically reduce the emission of volatile organic compounds (VOC), the main cause of indoor pollution, without altering the chemical and physical properties of the products.

Zherorisk® Evolution Technology



ZERO RISKS FOR HOMES

- ✓ Very low VOC emission rate: health and safety of the air quality in homes and the well-being of inhabitants.

ZERO RISKS FOR THE OPERATOR

- ✓ Low hazard labelling
- ✓ Non-corrosive
- ✓ Non-toxic
- ✓ Non-hazardous to the environment

ZERO RISKS FOR TRANSPORT

- ✓ Product exempt from restrictions for road, sea, air and rail transport
- ✓ No ADR limitations for transport by road
- ✓ No IMO containers for transport by sea

ZERO RISKS FOR THE ENVIRONMENT

- ✓ Renewable raw materials
- ✓ Recyclable materials
- ✓ Reduced energy consumption
- ✓ Reduced CO₂ emission
- ✓ Reduced raw material consumption

Certifications



EC1^{PLUS}

Litokol products come with EMICODE EC1^{PLUS} certification and labelling, for “products with a very low volatile organic compound emission rate” in compliance with the guidelines issued by GEV (association for the control of building material emissions), **with much lower values than the limit values.**



Émission dans l'air intérieur

“Émission dans l'air intérieur” is the label that must be placed on products used in construction or interior wall and floor coverings in buildings, according to the French regulation concerning the features of the product's volatile organic compounds (VOC). The product emission level is indicated by a class ranging from A + (very low emissions) to C (high emissions), according to the same principle used for electrical appliances.



The transparent path of sustainability

Litokol has set itself a permanent goal of continuously improving the performance of its Environmental Management System.

The preliminary assessment of the environmental impact linked to company processes, the internal and external verification activities and the management review are the tools that Litokol uses to achieve constant improvement.

The tool chosen to implement these goals is the **Environmental Management System, compliant with UNI EN ISO 14001: 2015.**

An **EPD is a certified Environmental Products Declaration**, which provides environmental data on the life cycle of the products in accordance with the international standard ISO 14025.

The International EPD System is a program allowing the development and registration of EPDs for all types of goods and services. The system is international and certified by a third party.



Transport of goods and environmental protection

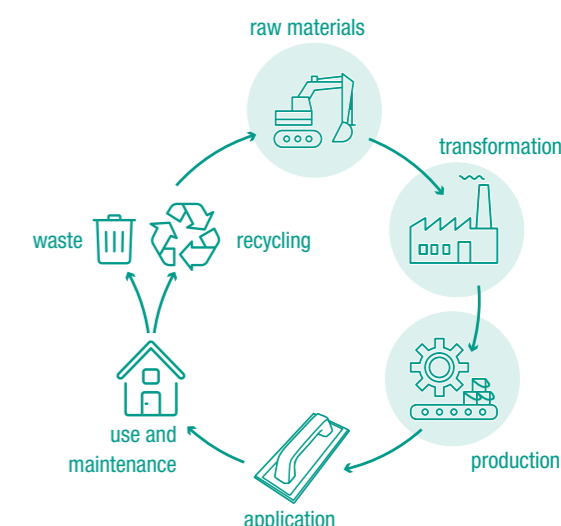
Zherorisk® products, in addition to being **eco-friendly**, safe for the environment and human health, with a very low VOC emission rate, can circulate with absolute tranquillity given they **are free of substances harmful** to the environment and are therefore exempt from the obligations imposed by ADR regulations for the carriage of dangerous goods. The path taken on toxicological studies and the reform of all chemical substances included in the Reach/CLP European standards that introduces the United Nations globally harmonized system GHS, has allowed the classification and labelling criteria to be harmonised, thus encouraging the free movement of goods whilst ensuring a **high level of protection** for man and the environment. With the new basic substances developed as a result of the Zherorisk® project, it was possible to obtain products with minimum risk labelling, with no obligations imposed by the ADR regulation, allowing for significant cost savings in terms of shipping and logistical time frames. Also, in the case of long-distance international shipments, our products can be transported by sea in containers without IMO (International Maritime Organization) certification, or in urgent cases even by air, without being subject to the restrictions applicable to toxic, corrosive, or flammable materials.



To create an EPD, it is necessary to develop an **LCA (Life Cycle Assessment) study or Life Cycle Analysis** taking into account the **shared product category rules (PCR)**. The results of the study and other information, as required by the PCR, are then reported in the EPD format. The EPD developed as such is then verified by an accredited independent body. Litokol chose **UL Underwriters Laboratories Inc.**, an independent safety certification company, which develops standards and tests for products, materials, components, and instruments, with a particular focus on safety. Our EPDs are entered in the UL portal and can be accessed by a vast network of companies.

Thanks to this undertaking, our products acquire points for LEED certification (Leadership in Energy and Environmental Design), the US system used to classify the energy efficiency and ecological footprint of buildings, developed by the GBC (Green Building Council) of which Litokol is a part, providing a set of measurement standards to assess sustainable constructions in terms of their environmental impact.

LCA the life cycle of Litokol's products



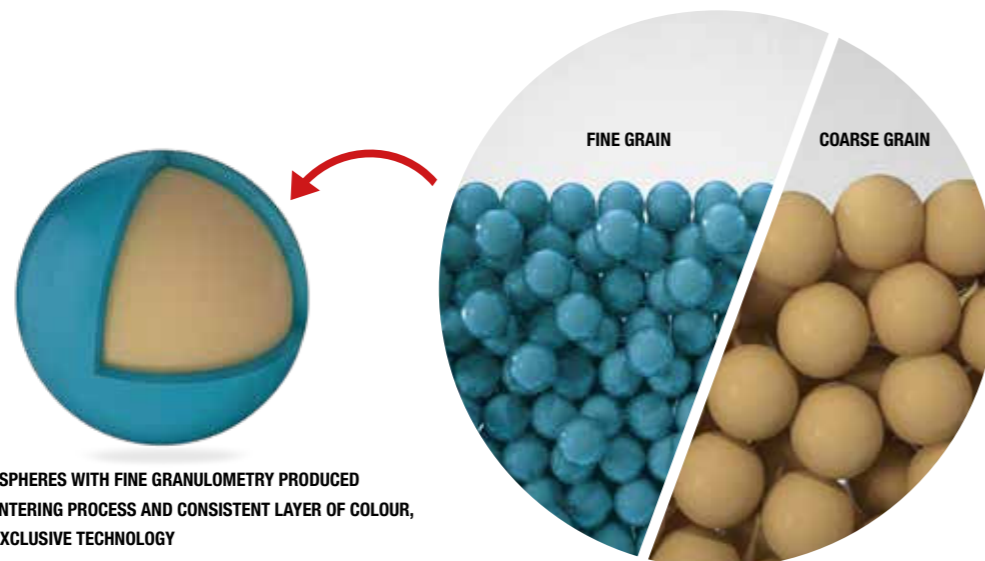
📍 Innovation and technology: colour quartz micro spheres

The definition “EVO” identifies **new generation** Litokol products with the common features of eco-compatibility and safety for operators, people and transportation, resulting from the Zherorisk® project. To support the process of innovation generated by the Zherorisk® project, the company has made strategic, technological and management choices which concern all the parties in the cycle and production chain. This development process is enhanced and completed by a strategic analysis of “**make or buy**”, which has led Litokol to undertake an important investment in technology and *know-how* geared towards the **vertical integration upstream** of its supply chain.

With the expansion of the factory at the central site in Rubiera, an ultra-modern **quartz colouring system** has been installed based on an **exclusive procedure** which is a breakthrough in the panorama of this type of raw material.

This one-of-a-kind, latest generation system allows **quartz micro spheres with fine granulometry to be coloured** (unlike commonly used quartz) with an exclusive **cold** sintering process.

This innovative process, starting with the latest-generation Starlike® EVO epoxy grout, will allow Litokol to maintain a competitive advantage that will be difficult to beat, protected from any attempts of *reverse engineering*.



Standard coarse grain quartz:
more irregular and less compact surface which encourages a higher degree of staining.

Fine grain quartz:
highly smooth and compact **surface** with a **high aesthetic appeal** and low **dirt pick-up**.

📍 All the advantages of a production process unique to its kind

The use of sintered quartz micro spheres in the new Starlike® EVO epoxy grout is a significant step forward compared to the previous version which was already the benchmark for the market.

This effort by Litokol fits in perfectly with its mission: to produce innovative products using new technology, not to set itself apart, but to be different. The granulometry of coloured quartz makes the mix significantly more fluid when being applied, making it easier to fill the joints. From an aesthetic point of view, the grouting is smoother and more compact while the colours assume a softer and more intense appearance which blends perfectly with the surface of the tile, making the joint virtually invisible with tone-on-tone colours.





📍 Internationalisation

The acceleration of the internationalisation process, from 1999 with investments in production in Russia near Moscow (**Litokol o.o.o.**), in Armenia near Yerevan (**Litokol AM**), and sales offices in Kiev in Ukraine (**Litokol Plus**) and in Shanghai in China (**Litokol Building Materials co. Ltd.**), has forged ahead uninterrupted to present day. The joint venture in India between Litokol and **Pidilite Industries Ltd.**, listed on the Mumbai stock exchange, took place in 2019, while in 2021, a new sales office was opened, **Litokol Greece**, based in Patras.



> Synopsis for choosing adhesives

60x60	45x45	30x45	60x60	20x30
			15x30	20x20
40x60	75x75		15x75	> 60 cm
30x60	> 60 cm		50x75	> 60 cm
20x60	30x120			> 60 cm
15x60	20x120			> 60 cm
90x90	75x150			> 60 cm
> 60 cm	15x150			> 60 cm

Ceramic and porcelain floor and wall tiles

The UNI 11493-1:2016 standard in force in Italy, which provides the indications required to choose materials, the correct design, use and installation of ceramic and porcelain tiles, defines large format tiles as having a side longer than 60 cm.

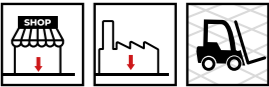
Interior floors for residential
and public/commercial spaces (pedestrian areas)



TYPE OF SUBSTRATE	K17 K18	X11 X12	K80	K55	K50	K77	K100	K90	K91	LITOACRIL FIX	LITOACRIL PLUS	LITOACRIL LA315/ LA201	LITOELASTIC EVO
Classification according to EN 12004 - EN 12002	C1	C2TE	C2TE	C2TE	C2TE S1	C2TE S1	C2TE S2	C2FTE	C2FTE S1	D1E	D2TE	D1TE	R2T
Cement or Litocem/Litocem Pronto-based non-heating screeds	up to 60	up to 90	up to 120	up to 120	up to 150	up to 150	any	up to 120	up to 150	up to 30	up to 45	up to 30	any
Cementitious or Litocem/Litocem Pronto-based screed with heating	-	up to 60	up to 90	up to 90	up to 120	up to 120	any	up to 90	up to 120	up to 30	up to 30	up to 30	any
Sulphate-based screed (Anhydrite) without heating (1)	up to 60	up to 90	up to 120	up to 120	up to 150	up to 150	any	up to 120	up to 150	up to 30	up to 45	up to 30	any
Sulphate-based screed (Anhydrite) with heating (1)	-	up to 60	up to 90	up to 90	up to 120	up to 120	any	up to 90	up to 120	up to 30	up to 30	up to 30	any
Cast-in-place concrete (2)	-	up to 90	up to 120	up to 120	up to 150	up to 150	any	up to 120	up to 150	-	-	-	any
Pre-cast concrete	-	-	up to 30	up to 30	up to 60	up to 60	up to 120	up to 30	up to 60	-	-	-	any
Pre-existing substrates made of tiles, mosaics, stone, agglomerate floors (3)	-	up to 60	up to 90	up to 90	up to 120	up to 120	any	up to 90	up to 120	-	-	-	any
pre-existing wood, PVC, resin substrate	-	-	-	-	-	-	-	-	-	-	-	-	any
pre-existing substrates with organic adhesive residue (4)	-	up to 30	up to 90	up to 90	up to 120	up to 120	any	up to 90	up to 120	-	-	-	any
Substrates waterproofed with Hidroflex, Aquamaster EVO, Elastocem, Coverflex, Litoproof PLUS.	-	up to 30	up to 60	up to 90	up to 120	up to 120	any	up to 60	up to 120	-	-	-	any
Substrates with separation layer or membrane	-	-	up to 120	up to 120	up to 150	up to 150	any	-	up to 150	-	-	-	any
Wood panels	-	-	-	-	-	-	-	-	-	-	up to 45	-	-
Wood or metal substrates	-	-	-	-	-	-	-	-	-	-	-	-	any

> KEY
1 - After treatment with Primer C or Primer X94 in the case of cementitious adhesives (C). Maximum humidity = 0.5%
2 – Curing time: minimum 6 months
3 – After cleaning and degreasing with Litoscrub EVO
4 – After treatment with Prepara Fondo EVO in the case of cementitious adhesives

Interior floors for
public/commercial and industrial spaces
with heavy traffic




TYPE OF SUBSTRATE	X11 X12	K80	K55	K50	K77	K100	K90	K91	LITOELASTIC EVO
Classification according to EN 12004 - EN 12002	C2TE	C2TE	C2TE	C2TE S1	C2TE S1	C2TE S2	C2FTE	C2FTE S1	R2T
Cement or Litocem/Litocem Pronto-based non-heating screeds	up to 60	up to 90	up to 90	up to 150	up to 150	any	up to 90	up to 150	any
Cast-in-place concrete (1)	up to 90	up to 120	up to 120	up to 120	up to 120	any	up to 120	up to 120	any
Pre-cast concrete	up to 30	up to 60	up to 60	up to 90	up to 90	up to 120	up to 30	up to 90	up to 120
Pre-existing tiled, mosaic, stone, agglomerate substrates (2)	up to 30	up to 90	up to 90	up to 120	up to 120	any	up to 90	up to 120	any
Pre-existing wood, PVC, resin substrates	-	-	-	-	-	-	-	-	any
pre-existing substrates with organic adhesive residue (3)	up to 30	up to 90	up to 90	up to 120	up to 120	any	up to 90	up to 120	any
Substrates waterproofed with Litoproof Plus	up to 30	up to 60	up to 90	up to 120	up to 120	any	up to 60	up to 120	any
Substrates waterproofed with Hidroflex, Aquamaster EVO, Elastocem, Coverflex, Litoproof Extreme	up to 30	up to 60	up to 90	up to 120	up to 120	any	up to 60	up to 120	any
Substrates with separation layer or membrane	-	up to 120	up to 90	up to 120	up to 120	any	-	up to 120	any
Wood or metal substrates	-	-	-	-	-	-	-	-	any

> KEY
1 - Curing time: minimum 6 months
2 – After cleaning and degreasing with Litoscrub EVO
3 – After treatment with Prepara Fondo EVO in the case of cementitious adhesives

Interior walls for residential, public/commercial and industrial spaces




													
TYPE OF SUBSTRATE	K17 K18	X11 X12	K80	K55	K50	K77	K100	K90	K91	LITOACRIL FIX	LITOACRIL PLUS	LITOACRIL LA315/ LA201	LITOELASTIC EVO
Classification according to EN 12004 - EN 12002	C1	C2TE	C2TE	C2TE S1	C2TE S1	C2TE S1	C2TE S2	C2FTE	C2FTE S1	D1E	D2TE	D1TE	R2T
Lime/cement-based plaster	up to 60	up to 90	up to 90	up to 90	up to 150	up to 150	any	up to 90	up to 150	up to 30	up to 60	up to 45	any
Gypsum-based plaster (1)	up to 60	up to 90	up to 90	up to 90	up to 150	up to 150	any	up to 90	up to 150	up to 30	up to 60	up to 45	any
Cast-in-place concrete (2)	-	up to 60	up to 90	up to 90	up to 150	up to 150	any	up to 90	up to 150	up to 30	up to 45	up to 30	any
Pre-cast concrete	-	up to 60	up to 90	up to 90	up to 150	up to 150	any	up to 90	up to 150	up to 30	up to 45	up to 30	any
Pre-existing substrates made of old tiles, mosaics, stone (3)	-	up to 30	up to 90	up to 90	up to 120	up to 120	any	up to 90	up to 120	-	-	-	any
Substrates waterproofed with Hidroflex, Aquamaster EVO, Elastocem, Coverflex, Litoproof Plus	-	up to 30	up to 60	up to 60	up to 150	up to 150	any	up to 60	up to 150	-	-	-	any
Fibre cement and cement panels	up to 30	up to 30	up to 60	up to 60	up to 120	up to 120	any	up to 60	up to 120	up to 30	up to 45	up to 45	any
Waterproof and non-waterproof gypsum boards (4)	-	up to 30	up to 60	up to 60	up to 90	up to 90	up to 120	up to 60	up to 90	up to 30	up to 45	up to 45	any
Elements in autoclaved aerated concrete (5)	up to 60	up to 90	up to 90	up to 90	up to 90	up to 90	up to 120	up to 90	up to 90	-	-	-	any
Thermal insulated and soundproof panels - lightweight panels	-	-	up to 60	up to 60	up to 90	up to 90	up to 120	up to 60	up to 90	-	-	-	any
Wood panels	-	-	-	-	-	-	-	-	-	-	up to 45	-	-

➤ **KEY**
1 - After treatment with Primer C or Primer X94 in the case of cementitious adhesives (C). Maximum humidity = 0.5%
2 - Curing time: minimum 6 months
3 - After cleaning and degreasing with Litoscrub EVO
4 - After treatment with Prepara Fondo EVO in the case of cementitious adhesives

Outdoor floors for residential, public/commercial and industrial spaces



										
TYPE OF SUBSTRATE	K17 K18	X11 X12	K80	K55	K50	K77	K100	K90	K91	LITOELASTIC EVO
Classification according to EN 12004 - EN 12002	C1	C2TE	C2TE	C2TE	C2TE S1	C2TE S1	C2TE S2	C2FTE	C2FTE S1	R2T
Cement screed or Litocem/Litocem Pronto-based non-heating screeds	up to 30	up to 60	up to 90	up to 90	up to 120	up to 120	any	up to 90	up to 120	any
Cast-in-place concrete (1)	up to 30	up to 60	up to 90	up to 90	up to 120	up to 120	any	up to 90	up to 120	any
Pre-cast concrete	-	up to 30	up to 30	up to 30	up to 60	up to 60	up to 90	up to 30	up to 60	any
Pre-existing substrates made of tiles, mosaics, stone, agglomerate floors (2)	-	up to 30	up to 90	up to 90	up to 120	up to 120	any	up to 90	up to 120	any
Substrates waterproofed with Aquamaster EVO, Elastocem, Coverflex or Litoproof Extreme	-	up to 30	up to 60	up to 90	up to 120	up to 120	any	up to 60	up to 120	any
Substrates with separation layer or membrane	-	-	up to 60	up to 90	up to 120	up to 120	any	-	up to 120	any
Wood or metal substrates	-	-	-	-	-	-	-	-	-	up to 90

Exterior walls

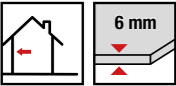
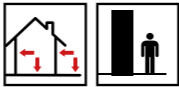


									
TYPE OF SUBSTRATE	X11 X12	K80	K55	K50	K77	K100	K90	K91	LITOELASTIC EVO
Classification according to EN 12004 - EN 12002	C2TE	C2TE	C2TE	C2TE S1	C2TE S1	C2TE S2	C2FTE	C2FTE S1	R2T
Lime/cement-based plaster	up to 30	up to 60	up to 60	up to 90	up to 90	any	up to 60	up to 90	any
Cast-in-place concrete (1)	up to 30	up to 60	up to 60	up to 90	up to 90	any	up to 60	up to 90	any
Pre-cast concrete	up to 30	up to 60	up to 30	up to 90	up to 90	any	up to 60	up to 90	any
Pre-existing substrates made of tiles, mosaics, stone, agglomerate floors (2)	-	-	-	up to 30	up to 30	up to 60	-	up to 30	any
Substrates waterproofed with Aquamaster EVO, Elastocem, Coverflex	-	up to 30	up to 30	up to 90	up to 90	any	up to 30	up to 90	any
Fibre cement panels	-	-	up to 30	up to 60	up to 60	up to 90	up to 30	up to 60	any
Wood or metal substrates	-	-	-	-	-	-	-	-	any

➤ **KEY**
1 - Curing time: minimum 6 months
2 - After cleaning and degreasing with Litoscrub EVO

NB: In the case of tiled surfaces characterised by a significant vertical slip (> 3m) subject to high levels of tension in expansion joints due to the thermo-hygrometric variations and considering the safety risks posed by any tiles coming loose, it is recommended to consult the Litokol technical support service in order to precisely define the safest type of installation.

Installation of thin, large format slabs



SUBSTRATES
- civil building plaster, gypsum-based plaster, plasterboard, fibre cement panels.
- concrete, old ceramic, marble tiles, stone material.
- wood composition panels, metal.

INTERNAL WALL INSTALLATION OF SLABS WITH 6 mm thickness

Substrates: civil building plaster, gypsum-based plaster, plasterboard, fibre cement panels

At the discretion of the works supervisor.	Slab format (cm)	Product	Class	Treatment
Cementitious adhesives with normal setting	Up to 100	Superflex K77 Powerflex K50	C2TE S1	On gypsum-based substrates and plasterboard, apply first PRIMER C or PRIMER X94
	All formats	Hyperflex K100	C2TE S2	
Cementitious adhesives with quick setting	Up to 100	Rapidflex K91	C2FTE S1	
	All formats	Litorapid K90 + Latexkol	C2FTE S2	
Reactive adhesive	All formats	Litoelastic EVO	R2T	Not required

Substrates: concrete, old ceramic, porcelain and marble tiles, stone material

At the discretion of the works supervisor.	Slab format (cm)	Product	Class	Treatment
Cementitious adhesives with normal setting	Up to 100	Superflex K77 Powerflex K50	C2TE S1	On old ceramic, marble tiles and stone material, clean with Litoscrub EVO and apply Prepara Fondo EVO beforehand
	All formats	Hyperflex K100	C2TE S2	
Cementitious adhesives with quick setting	Up to 100	Rapidflex K91	C2FTE S1	
	All formats	Litorapid K90 + Latexkol	C2FTE S2	
Reactive adhesive	All formats	Litoelastic EVO	R2T	Not required

Substrates: wood composition panels, metal

At the discretion of the works supervisor.	Slab format (cm)	Product	Class	Treatment
Reactive adhesive	All formats	Litoelastic EVO	R2T	Not required



SUBSTRATES
- civil building plaster, gypsum-based plaster, plasterboard, fibre cement panels.
- concrete, old ceramic, marble tiles, stone material.
- wood composition panels, metal.

INTERNAL WALL INSTALLATION OF SLABS WITH 3-5-6 mm thickness with reinforced backing

Substrates: civil building plaster, gypsum-based plaster, plasterboard, fibre cement panels

At the discretion of the works supervisor.	Slab format (cm)	Product	Class	Treatment
Cementitious adhesives with normal setting	Up to 100	Superflex K77 Powerflex K50	C2TE S1	On gypsum-based substrates and plasterboard, apply first PRIMER C or PRIMER X94
	All formats	Hyperflex K100	C2TE S2	
Cementitious adhesives with quick setting	Up to 100	Rapidflex K91	C2FTE S1	
	All formats	Litorapid K90 + Latexkol	C2FTE S2	
Reactive adhesive	All formats	Litoelastic EVO	R2T	Not required

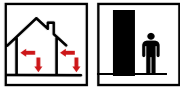
Substrates: concrete, old ceramic, porcelain and marble tiles, stone material

At the discretion of the works supervisor.	Slab format (cm)	Product	Class	Treatment
Cementitious adhesives with normal setting	All formats	Hyperflex K100	C2TE S2	On old ceramic, marble tiles and stone material, clean with Litoscrub EVO and apply Prepara Fondo EVO beforehand
Cementitious adhesives with quick setting	All formats	Litorapid K90 + Latexkol	C2FTE S2	
Reactive adhesive	All formats	Litoelastic EVO	R2T	

Substrates: wood composition panels, metal

At the discretion of the works supervisor.	Slab format (cm)	Product	Class	Treatment
Reactive adhesive	All formats	Litoelastic EVO	R2T	Not required

Installation of thin, large format slabs



SUBSTRATES
- plaster
- concrete

EXTERNAL WALL INSTALLATION OF SLABS WITH 6 mm thickness

Substrate: plaster

At the discretion of the works supervisor.	Slab format (cm)	Product	Class	Treatment
Cementitious adhesives with normal setting	All formats	Hyperflex K100	C2TE S2	Not required
Reactive adhesive	All formats	Litoelastic EVO	R2T	
Cementitious adhesives quick setting	All formats	Litorapid K90 + Latexkol	C2F S2	
	All formats	Litorapid K90 + Latexkol	C2F S2	

Substrate: concrete

At the discretion of the works supervisor.	Slab format (cm)	Product	Class	Treatment
Cementitious adhesives with normal setting	All formats	Hyperflex K100	C2TE S2	Not required
Reactive adhesive	All formats	Litoelastic EVO	R2T	
Cementitious adhesives with quick setting	All formats	Litorapid K90 + Latexkol	C2FTE S2	
	All formats	Litorapid K90 + Latexkol	C2FTE S2	

For exterior wall installations, where tiled surfaces are characterised by a significant vertical slip (> 3 m) subject to high levels of tension in expansion joints due to the thermo-hygrometric variations and considering the safety risks posed by any eventual detachments, it is recommended to consult the Litokol S.p.A technical help service in order to precisely define the safest type of installation.



SUBSTRATES
- plaster
- concrete

EXTERNAL WALL INSTALLATION OF SLABS WITH 3-5-6 mm thickness with reinforced backing

Substrate: plaster

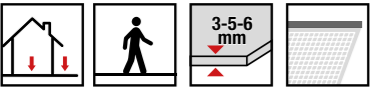
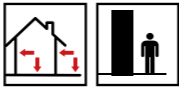
At the discretion of the works supervisor.	Slab format (cm)	Product	Class	Treatment
Cementitious adhesives with normal setting	Up to 100	Hyperflex K100	C2TE S2	Not required
Reactive adhesive	All formats	Litoelastic EVO	R2T	
Cementitious adhesives quick setting	Up to 100	Litorapid K90 + Latexkol	C2FTE S2	
	Up to 100	Litorapid K90 + Latexkol	C2FTE S2	

Substrate: concrete

At the discretion of the works supervisor.	Slab format (cm)	Product	Class	Treatment
Cementitious adhesives with normal setting	Up to 100	Hyperflex K100	C2TE S2	Not required
Reactive adhesive	All formats	Litoelastic EVO	R2T	
Cementitious adhesives with quick setting	Up to 100	Litorapid K90 + Latexkol	C2FTE S2	
	Up to 100	Litorapid K90 + Latexkol	C2FTE S2	

For exterior wall installations, where tiled surfaces are characterised by a significant vertical slip (> 3 m) subject to high levels of tension in expansion joints due to the thermo-hygrometric variations and considering the safety risks posed by any eventual detachments, it is recommended to consult the Litokol S.p.A technical help service in order to precisely define the safest type of installation.

Installation of thin, large format slabs



SUBSTRATES
- calcium sulphate-based cementitious screeds with heating, self-levelling, concrete, old ceramic, marble tiles, stone material.
- wood, PVC, rubber, linoleum, metal, resin.

INDOOR/OUTDOOR FLOOR INSTALLATION WITH NO TRAFFIC, WITH 3-5-6 mm thickness with reinforced backing

OUTDOORS provided that the substrates are covered (e.g. porches, covered balconies, etc.) and fully waterproofed. The use of formats no bigger than 100x100 cm is recommended.

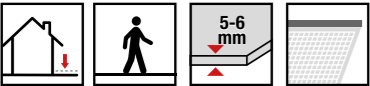
Substrates: calcium sulphate-based cementitious screeds with heating, self-levelling, concrete, old ceramic, marble tiles, stone material.

At the discretion of the works supervisor.	Slab format (cm)	Product	Class	Treatment
Cementitious adhesives with normal setting	Indoors: all formats	Hyperflex K100	C2TE S2	For gypsum-based substrates and self-levellers: PRIMER C For pre-existing ceramic, agglomerate and stone: Prepara Fondo EVO
	Exterior: up to 100			
Cementitious adhesives with quick setting	Indoors: all formats	Litorapid K90 + Latexkol	C2FTE S2	
	Exterior: up to 100			
Reactive adhesive	All formats	Litoelastic EVO	R2T	Not required

OUTDOORS provided that the substrates are covered (e.g. porches, covered balconies, etc.) and fully waterproofed. The use of formats no bigger than 100x100 cm is recommended.

Substrates: wood, PVC, rubber, linoleum, metal, resin.

At the discretion of the works supervisor.	Slab format (cm)	Product	Class	Treatment
Reactive adhesive	All formats	Litoelastic EVO	R2T	Not required



SUBSTRATES
- separation/waterproofing membrane stated as suitable by the manufacturer

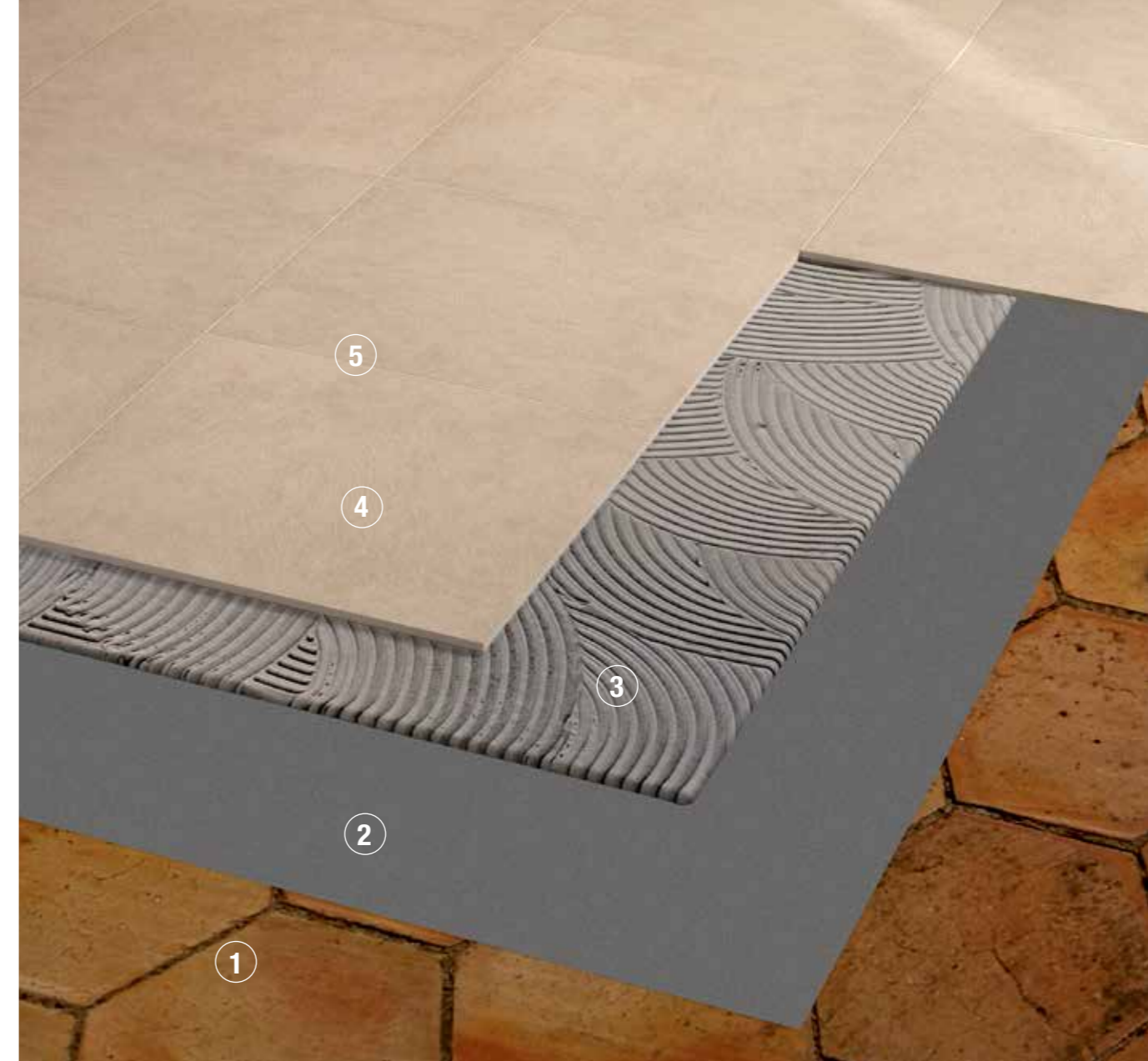
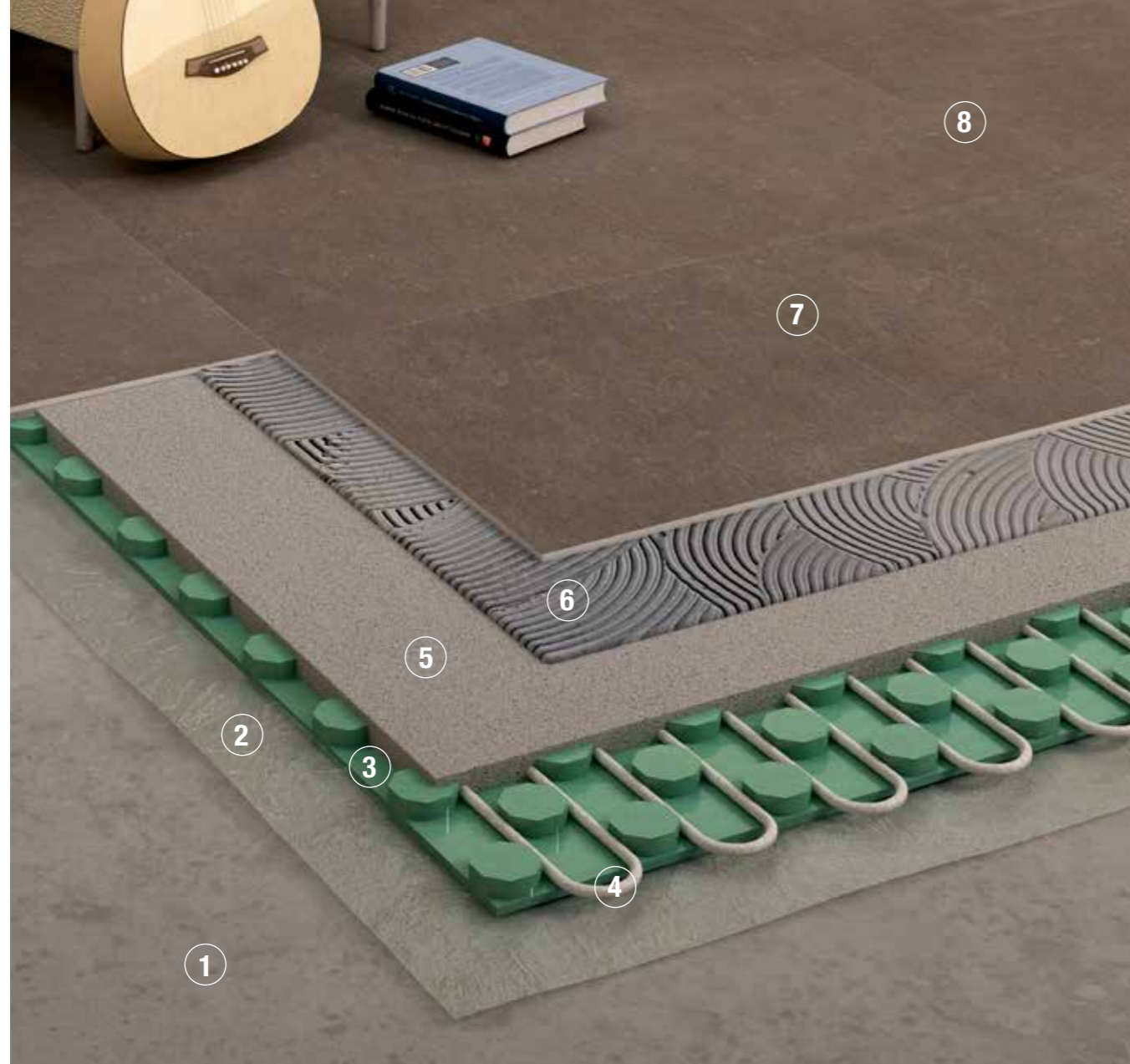
OUTDOOR FLOOR INSTALLATION WITH NO VEHICLE TRAFFIC OF SLABS WITH 5-6 mm thickness with reinforced backing

Substrate: separation/waterproofing membrane stated as suitable by the manufacturer

At the discretion of the works supervisor.	Slab format (cm)	Product	Class	Treatment
Cementitious adhesives with normal setting	Up to 100	Hyperflex K100	C2TE S2	Not required
Cementitious adhesives with quick setting	Up to 100	Litorapid K90 + Latexkol	C2FTE S2	
Reactive adhesive	All formats	Litoelastic EVO	R2T	Not required



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Underfloor heating

System for installation of **ceramics on underfloor heating**

PRODUCTS

- 1 - CONCRETE SUBSTRATE
- 2 - POLYTHENE SHEET
- 3 - INSULATING PANEL
- 4 - RADIANT SYSTEM
- 5 - LITOCEM or LITOCEM PRONTO
- 6 - LITOFLEX PRO K80, SUPERFLEX K77 or LITOPLUS K50
- 7 - STARLIKE® EVO, STYLEGROUT or FILLGOOD EVO
- 8 - OTTOPRIMER 1216 + OTTOSEAL S70 (divider joint)



5 LITOCEM or LITOCEM PRONTO



6 LITOFLEX PRO K80 or SUPERFLEX K77 or POWERFLEX K50



7 STARLIKE® EVO or STYLEGROUT 3-20 or STYLEGROUT 0-8 or STYLEGROUT TECH or FILLGOOD EVO



8 OTTOPRIMER 1216 + OTTOSEAL S70 (divider joints)

Porcelain stoneware on existing tiles

System for installation on **porcelain stoneware tiles on existing ceramic and porcelain tiles**

PRODUCTS

- 1 - LITOSCRUB EVO
- 2 - PREPARA FONDO EVO
- 3 - LITOFLEX PRO K80, SUPERFLEX K77 or LITOPLUS K50
- 4 - PORCELAIN STONEWARE TILES
- 5 - STARLIKE® EVO, STYLEGROUT or FILLGOOD EVO



1 LITOSCRUB EVO



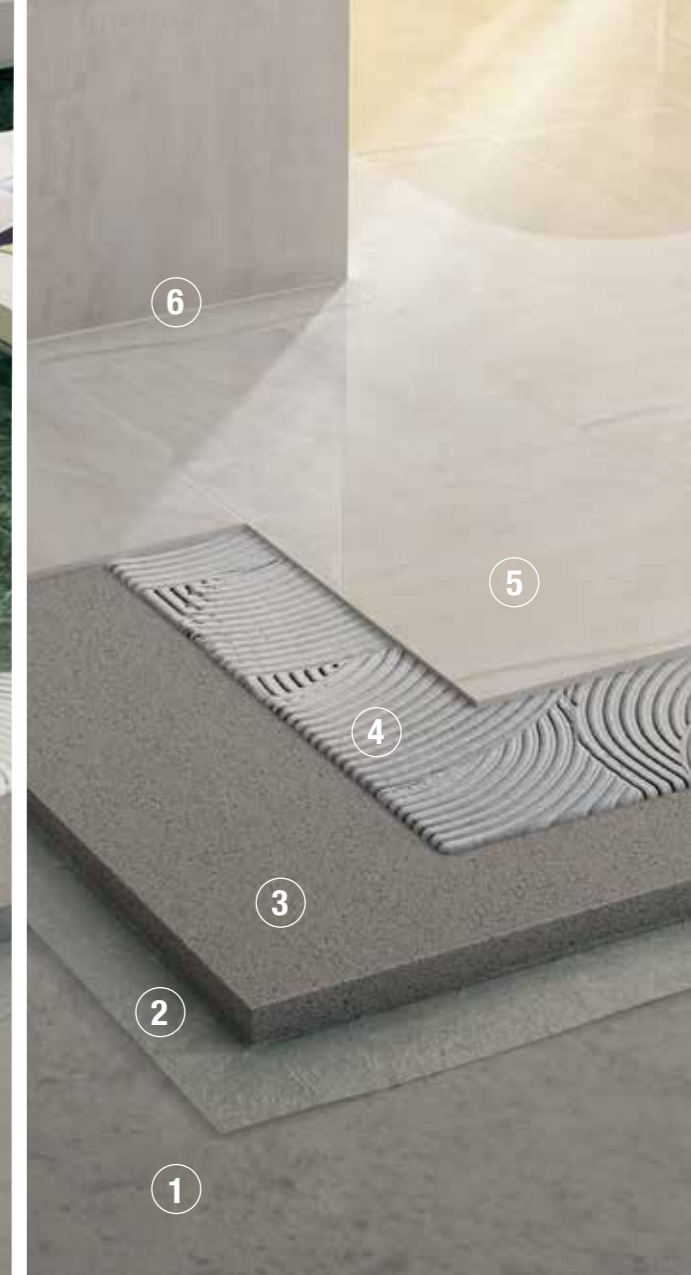
2 PREPARA FONDO EVO



3 LITOFLEX PRO K80 or SUPERFLEX K77 or POWERFLEX K50



5 STARLIKE® EVO or STYLEGROUT 3-20 or STYLEGROUT 0-8 or STYLEGROUT TECH or FILLGOOD EVO



Thin slabs on existing tiles

System for installation of **thin reinforced slabs** on floors over **existing tiles**

PRODUCTS

- 1 - LITOSCRUB EVO
- 2 - HYPERFLEX K100 - LITOELASTIC EVO

- 3 - STARLIKE® EVO, EPOXYÉLITE EVO, STYLEGROUT or FILLGOOD EVO
- 4- OTTOSEAL S100/105 or S70 (perimeter joint)



① LITOSCRUB EVO



② HYPERFLEX K100 - LITOELASTIC EVO



③ STARLIKE® EVO, EPOXYÉLITE EVO, STYLEGROUT 0-8 or STYLEGROUT TECH or FILLGOOD EVO



④ OTTOSEAL S100/105 or S70 (perimeter joint)

PRODUCTS

- 1 - CONCRETE SUBSTRATE
- 2 - POLYTHENE SHEET
- 3 - LITOCEM or LITOCEM PRONTO

- 4 - LITOELASTIC EVO (green marble) or RAPIDFLEX K91 (white marble)
- 5 - STYLEGROUT
- 6 - OTTOPRIMER 1216 + OTTOSEAL S70



③ LITOCEM or LITOCEM PRONTO



④ LITOELASTIC EVO (green marble) or RAPIDFLEX K91 (white marble)



⑤ STYLEGROUT 0-8 or STYLEGROUT TECH



⑥ OTTOPRIMER 1216 + OTTOSEAL S70

Green marble and white marble

Installation system for **green marble** or **unstable to humidity** and **marble recomposed in resin** Rapid installation system of **white marble** or **substrates at risk of staining**



Wet areas

System for **waterproofing of bathrooms/showers with single component liquid membrane**

PRODUCTS

- 1 - SUBSTRATE
- 2 - LITOBAND SK Self-Adhesive Drains Collar
- 3 - AQUAMASTER EVO (1st coat diluted 10%)
- 4 - AQUAMASTER EVO (2nd coat)
- 5 - LITOBAND SK Pipes Collar
- 6 - AQUAMASTER EVO (3rd coat)
- 7 - ADHESIVE IN CLASS C2 / R2
- 8 - TILE / MOSAIC
- 9 - STARLIKE® EVO / EPOXYÉLITE EVO / STYLEGROUT
- 10 - OTTOSEAL S70



Wet areas

System for **waterproofing of bathrooms/showers with flexible sheets**

PRODUCTS

- 1 - SUBSTRATE
- 2 - SCREED
- 3 - ADHESIVE IN CLASS C2 / R2
- 4 - LITOPROOF PLUS
- 5 - LITOBAND KOLL
- 6 - LITOBAND SK Tape
- 7 - LITOBAND SK Corner IC
- 8 - LITOBAND SK Pipes Collar
- 9 - ADHESIVE IN CLASS C2 / R2
- 10 - DRAIN COVER
- 11 - TILE / MOSAIC
- 12 - STARLIKE® EVO / EPOXYÉLITE EVO / STYLEGROUT
- 13 - OTTOSEAL S70





Wet areas

System for **waterproofing** indoor wet areas with **liquid membranes**.

PRODUCTS

- 1 - SUBSTRATE
- 2 - PRIMER SK
- 3 - LITOBAND SK Self-Adhesive Drains Collar
- 4 - AQUAMASTER EVO (1st coat)
- 5 - LITOBAND SK Pipes Collar
- 6 - AQUAMASTER EVO (2nd coat)
- 7 - ADHESIVE IN CLASS C2 / R2
- 8 - TILE
- 9 - STARLIKE® EVO / EPOXYÉLITE EVO / STYLEGROUT
- 10 - OTTOSEAL S70



2 PRIMER SK



3 LITOBAND SK Self-Adhesive Drains Collar



4 6 AQUAMASTER EVO



5 LITOBAND SK Pipes Collar



9 STARLIKE® EVO or EPOXYÉLITE EVO or STYLEGROUT 0-8 or STYLEGROUT TECH



10 OTTOSEAL S70

Wet areas

System for **waterproofing** of indoor wet areas with **liquid membrane - ETAG 022 part 2**

PRODUCTS

- 1 - SUBSTRATE
- 2 - PRIMER SK
- 3 - LITOBAND SK Self-Adhesive Drains Collar
- 4 - HIDROFLEX (first coat)
- 5 - LITOBAND SK Internal corner (IC)
- 6 - LITOBAND SK Tape
- 7 - LITOBAND SK Pipes Collar
- 8 - HIDROFLEX (second coat)
- 9 - LITOFLEX K80 PRO
- 10 - CERAMIC AND PORCELAIN TILES
- 11 - STARLIKE® EVO / EPOXYÉLITE EVO / STYLEGROUT
- 12 - OTTOSEAL S100/105 or S70



2 PRIMER SK



3 LITOBAND SK Self-Adhesive Drains Collar



4 8 HIDROFLEX



5 LITOBAND SK Internal corner (IC)



6 LITOBAND SK Tape



7 LITOBAND SK Pipes Collar



9 LITOFLEX K80 PRO



11 STARLIKE® EVO or EPOXYÉLITE EVO or STYLEGROUT 0-8 or STYLEGROUT TECH



12 OTTOSEAL S100/105 or S70 (perimeter joint)





Wet areas

System for **waterproofing** of indoor wet areas with **flexible sheets** - ETAG 022 part 2



PRODUCTS

- 1 – SUBSTRATE
- 2 – HIDROFLEX (first coat for Litoproof Plus bonding)
- 3 – LITOPROOF PLUS
- 4 – LITOBAND SK Self-Adhesive Drains Collar
- 5 – HIDROFLEX (second coat for Litoband Tape bonding and covering the drain)
- 6 – LITOBAND SK internal corner (IC)
- 7 – LITOBAND Tape
- 8 – LITOBAND SK Pipes Collar
- 9 – HIDROFLEX (third coat for covering corners and junctions)
- 10 – LITOFLEX PRO K80
- 11 – CERAMIC AND PORCELAIN TILES
- 12 – STARLIKE® EVO or EPOXYÉLITE EVO or STYLEGROUT
- 13 – OTTOSEAL S100/105 or S70



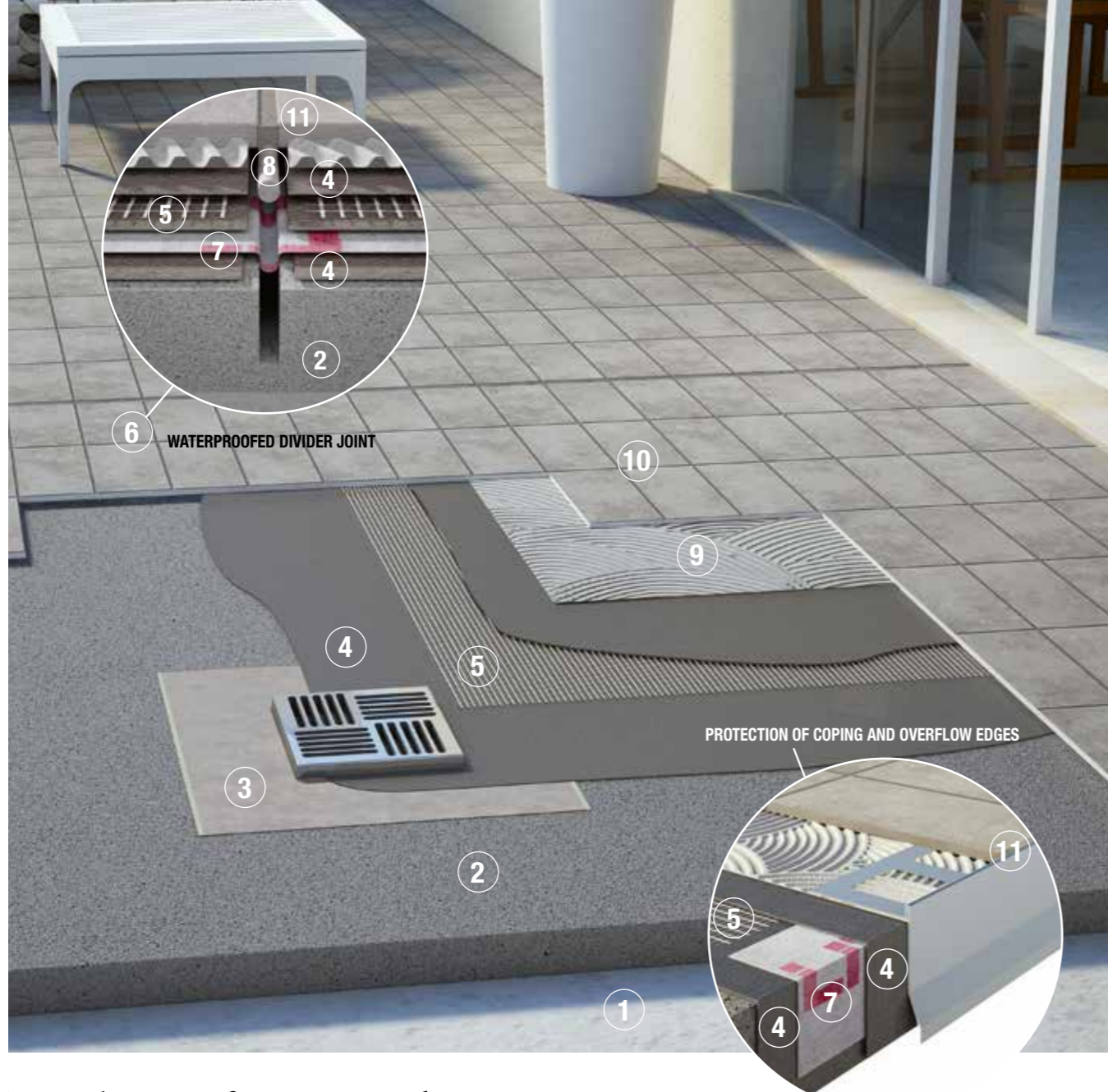
Balconies and terraces

System for **waterproofing** and installation of ceramics on balconies and terraces with **single component WATERPROOFING MEMBRANES**

PRODUCTS

- 1 – CONCRETE SUBSTRATE
- 2 – VAPOUR BARRIER
- 3 – LITOCEM or LITOCEM PRONTO (sloping)
- 4 – LITOBAND SK Self-Adhesive Drains Collar
- 5 – AQUAMASTER EVO (first coat diluted with 10% water)
- 6 – AQUAMASTER EVO (second coat)
- 7 – Aquamaster EVO (3rd coat)
- 8 – LITOBAND SK Tape + LITOBAND KOLL
- 9 – SUPERFLEX K77, HYPERFLEX K100
- 10 – WATERPROOFED DIVIDER JOINT
- 11 – STARLIKE® EVO, EPOXYÉLITE EVO or STYLEGROUT
- 12 – LITOGAP
- 13 – LITOSIDE
- 14 – OTTOPRIMER 1216 + OTTOSEAL S70 (perimeter and divider joint)





Balconies and terraces

System for **waterproofing** and installation of ceramic and porcelain tiles on balconies and terraces **with TWO-COMPONENT waterproofing membranes**

PRODUCTS

- 1 – CONCRETE SUBSTRATE
- 2 – LITOCEM or LITOCEM PRONTO SCREED (sloping)
- 3 – LITOBAND SK Self-Adhesive Drains Collar
- 4 – COVERFLEX/ELASTOCEM

- 5 – LITOMESH
- 6 – WATERPROOFED DIVIDER JOINT
- 7 – LITOBAND SK Tape + LITOBAND KOLL

- 8 – LITOGAP
- 9 – SUPERFLEX K77 or POWERFLEX K50
- 10 – STARLIKE® EVO, EPOXYÉLITE EVO or STYLEGROUT
- 11 – OTTOPRIMER 1216 + OTTOSEAL S70 (divider joint)



② LITOCEM or LITOCEM PRONTO SCREED



③ LITOBAND SK Self-Adhesive Drains Collar



④ COVERFLEX or ELASTOCEM



⑤ LITOMESH



⑦ LITOBAND SK Tape LITOBAND KOLL



⑧ LITOGAP



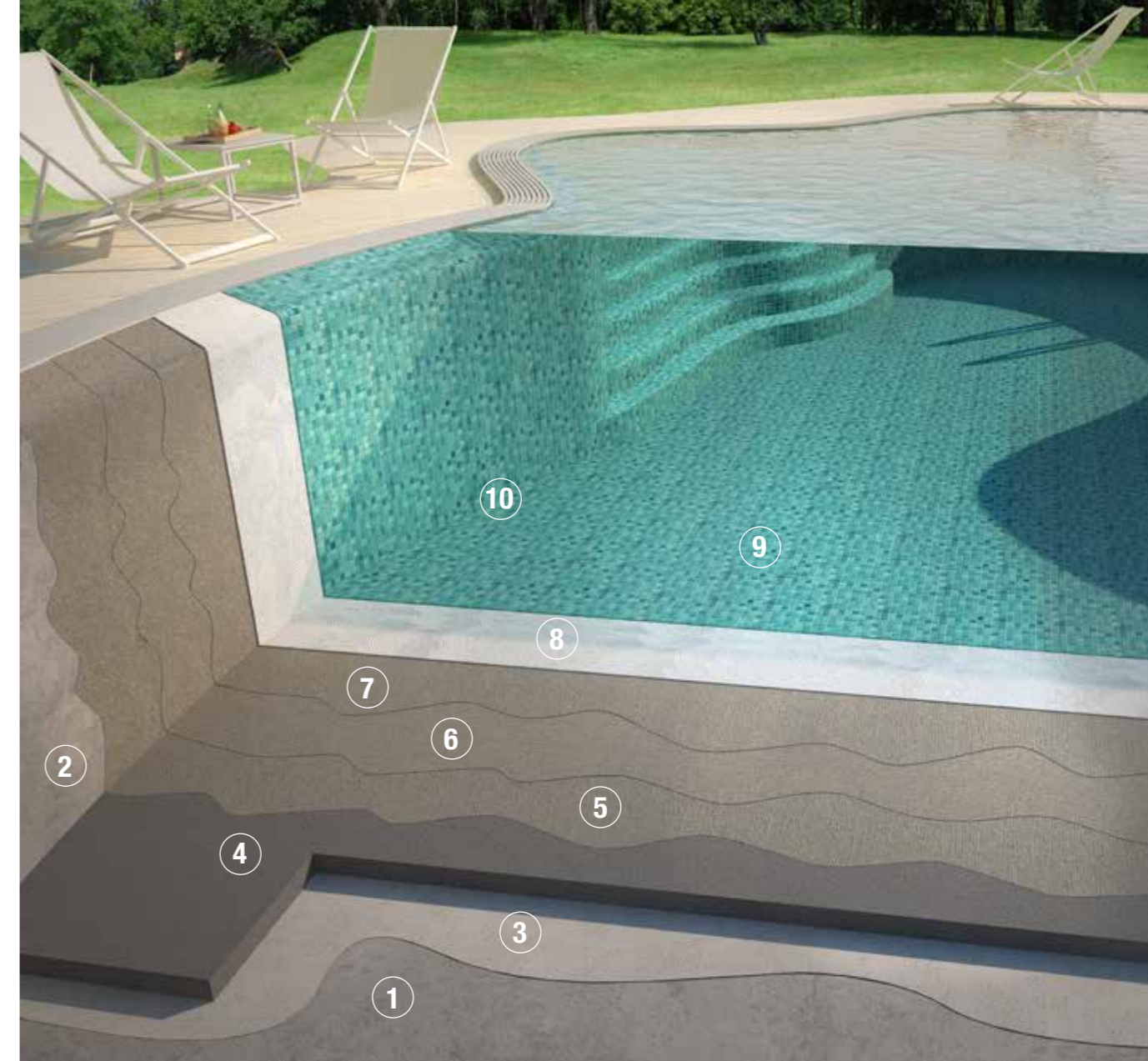
⑨ SUPERFLEX K77 or POWERFLEX K50



⑩ STARLIKE® EVO, EPOXYÉLITE EVO, STYLEGROUT 3-20 or STYLEGROUT TECH



⑪ OTTOPRIMER 1216 + OTTOSEAL S70 (perimeter and divider joint)



Swimming pools

System for **waterproofing** and installation of **ceramic and porcelain tiles or mosaics** in swimming pools with **SINGLE COMPONENT waterproofing membranes**

PRODUCTS

- 1 - REINFORCED CONCRETE STRUCTURE
- 2 - LITOPLAN SMART
- 3 - IDROKOL X20 ADHESIVE CEMENT SLURRY (applied with brush and made up of 3 parts in weight Litocem Pronto + 1 part water + 1 part IDROKOL X20 in equal quantities)
- 4 - LITOCEM or LITOCEM PRONTO

- 5 - AQUAMASTER EVO (first coat diluted with 10% water)
- 6 - AQUAMASTER EVO (second coat)
- 7 - Aquamaster EVO (3rd coat)
- 8 - LITOPLUS K55 / HYPERFLEX K100 / LITOELASTIC EVO
- 9 - STARLIKE® EVO, EPOXYÉLITE EVO or STYLEGROUT
- 10 - OTTOPRIMER 1218 + OTTOSEAL S70



② LITOPLAN SMART



③ IDROKOL X20



④ LITOCEM or LITOCEM PRONTO



⑤ ⑥ ⑦ AQUAMASTER EVO



⑧ LITOPLUS K55 / HYPERFLEX K100 / LITOELASTIC EVO



⑨ STARLIKE® EVO, EPOXYÉLITE EVO or STYLEGROUT 0-8 or STYLEGROUT TECH



⑩ OTTOSEAL S100/105 or S70 (perimeter joint)



Swimming pools

System for **waterproofing** and installation of **ceramic and porcelain tiles** or **mosaics** in swimming pools with **TWO-COMPONENT waterproofing membrane**

PRODUCTS

- 1 - REINFORCED CONCRETE STRUCTURE
- 2 - LITOPLAN SMART
- 3 - IDROKOL X20-BASED ADHESIVE CEMENT SLURRY
(applied by brush and made up of 3 parts in weight Litocem Pronto + 1 part water + 1 part IDROKOL X20 in equal quantities)
- 4 - LITOCEM or LITOCEM PRONTO
- 5 - COVERFLEX
- 6 - LITOMESH
- 7 - LITOBAND SK internal corner (IC)
- 8 - LITOBAND SK Tape
- 9 - LITOPLUS K55 / HYPERFLEX K100 LITOELASTIC EVO
- 10 - CERAMIC AND PORCELAIN TILES
- 11 - GLASS MOSAIC
- 12 - STARLIKE® EVO, EPOXYÉLITE EVO or STYLEGROUT
- 13 - OTTOPRIMER 1218 + OTTOSEAL S70



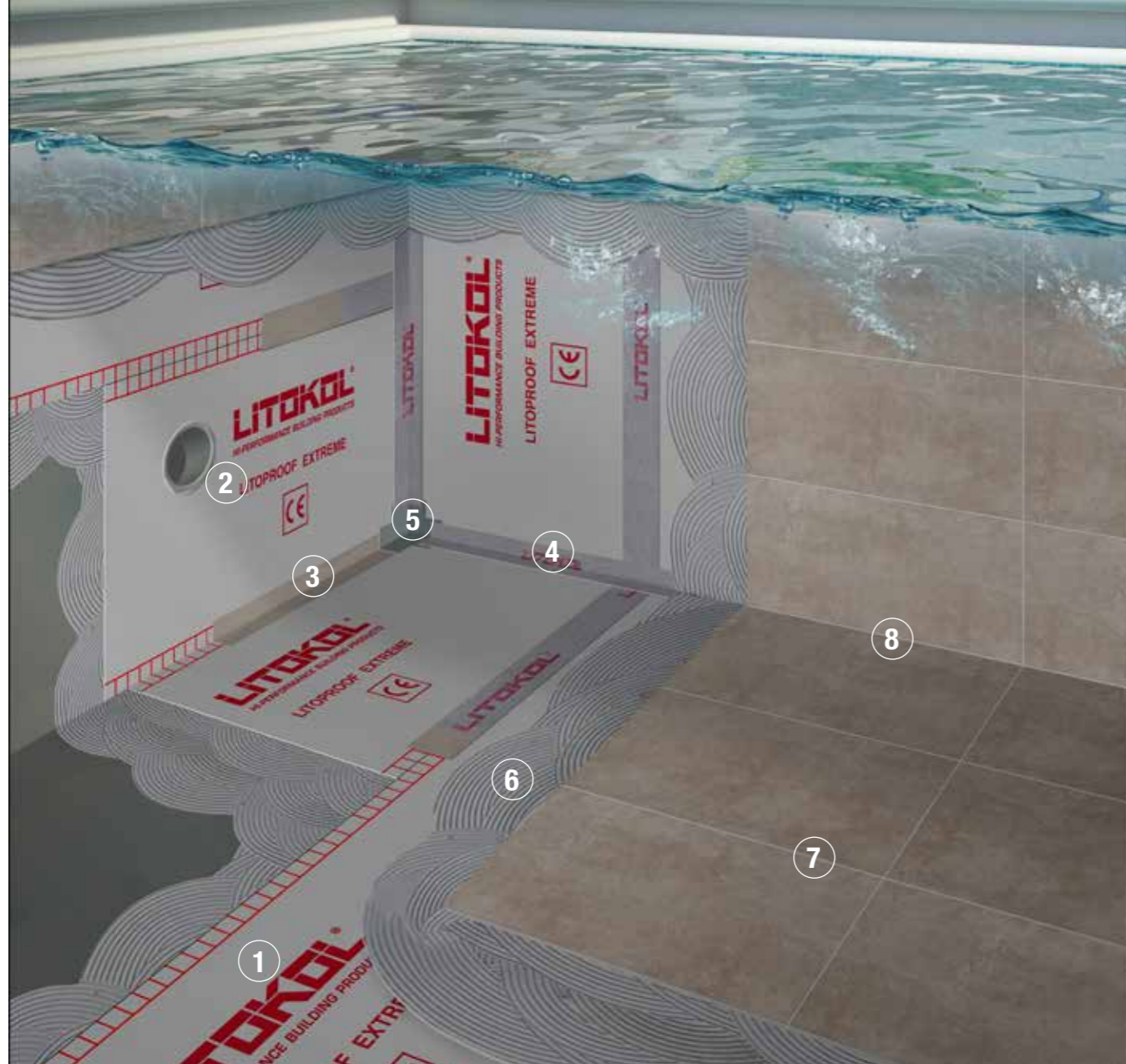
Swimming pools

System for **waterproofing** and installation of **ceramic and porcelain tiles** or **mosaics** in swimming pools with **TWO-COMPONENT waterproofing membrane**

PRODUCTS

- 1 - BONDING SLURRY MADE WITH IDROKOL X20
(applied by brush and made up of 3 parts in weight Litocem Pronto + 1 part water + 1 part IDROKOL X20)
- 2 - LITOCEM or LITOCEM PRONTO
- 3 - ELASTOCEM
- 4 - LITOBAND SK Tape
- 5 - LITOBAND SK internal corner (IC/EC)
- 6 - LITOMESH
- 7 - LITOPLUS K55 / HYPERFLEX K100 / LITOELASTIC EVO
- 8 - STARLIKE® EVO, EPOXYÉLITE EVO or STYLEGROUT
- 9 - OTTOPRIMER 1218 + OTTOSEAL S70





Swimming pools

System for **waterproofing** and installation of **ceramic and porcelain tiles or mosaics** in **swimming pools** with **flexible sheets**

PRODUCTS

- 1 - LITOPROOF EXTREME
- 2 - LITOSIL MS
- 3 - LITOBAND KOLL

- 4 - LITOBAND SK Tape
- 5 - LITOBAND SK internal corner (IC)
- 6 - LITOPLUS K55 / HYPERFLEX K100 / LITOELASTIC EVO

- 7 - STARLIKE® EVO, EPOXYÉLITE EVO or STYLEGROUT
- 8 - OTTOPRIMER 1218 + OTTOSEAL S70



SPAs, Turkish baths and saunas

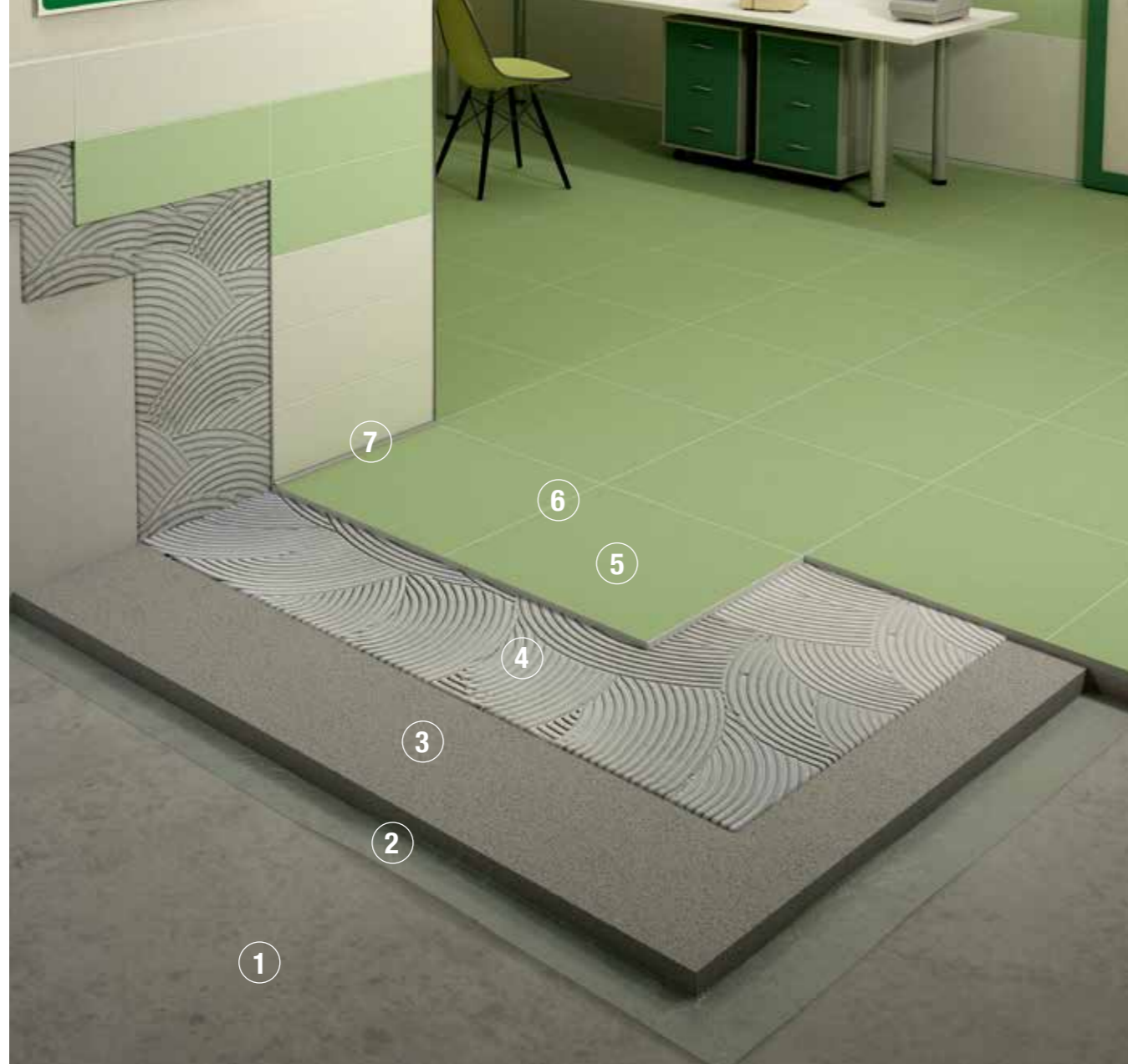
System for **waterproofing** and installation of **ceramic and porcelain tiles or mosaics** in **SPAs, wellness centres, and jacuzzis**.

PRODUCTS

- 1 - Lightweight panels in extruded polystyrene superficially coated
- 2 - AQUAMASTER EVO (first coat diluted with 10% water)
- 3 - AQUAMASTER EVO (second coat)
- 4 - AQUAMASTER EVO (third coat)

- 5 - LITOPLUS K55, HYPERFLEX K100, LITOELASTIC EVO, STARLIKE® EVO (also used as an adhesive)
- 6 - STARLIKE® EVO, EPOXYÉLITE EVO OR STYLEGROUT
- 7 - OTTOPRIMER 1218 + OTTOSEAL S70





Contact chemical substances

System for installation of **porcelain stoneware** or **clinker** tiles on floors **subject to strong chemical aggression**

PRODUCTS

- 1 - CONCRETE SUBSTRATE
- 2 - POLYTHENE SHEET
- 3 - LITOCEM or LITOCEM PRONTO

- 4 - LITOELASTIC EVO, EPOXYÉLITE EVO, or STARLIKE® EVO (used as an adhesive)
- 5 - TILES
- 6 - EPOXYÉLITE EVO/STARLIKE® EVO (grouting)

- 7 - OTTOPRIMER 1216 + OTTOSEAL S34 (perimeter joint)



③ LITOCEM or LITOCEM PRONTO SCREED



④ EPOXYÉLITE EVO LITOELASTIC EVO



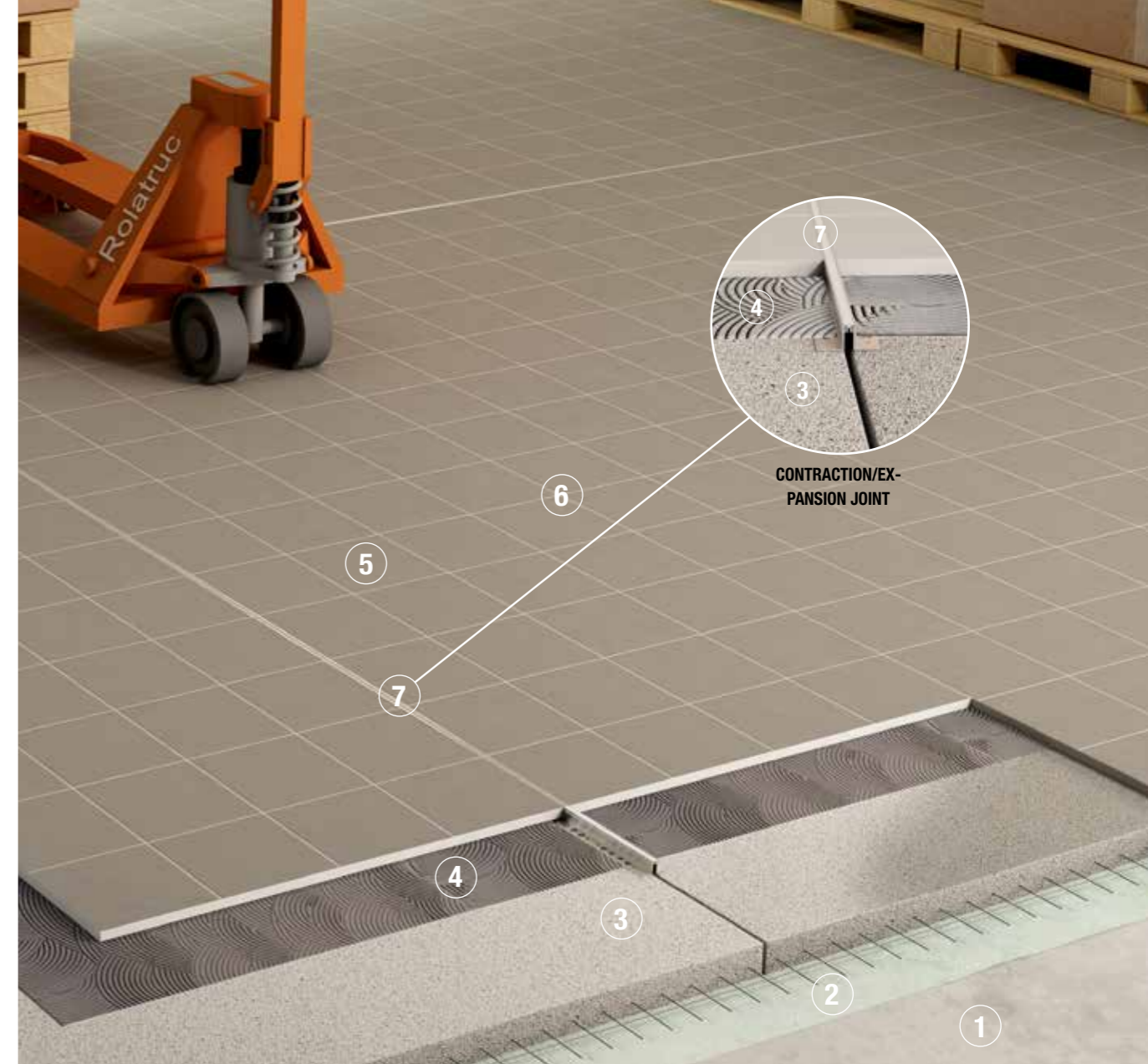
④ EPOXYÉLITE EVO
⑥



④ STARLIKE® EVO
⑥



⑦ OTTOPRIMER 1216 + OTTOSEAL S34



Heavy traffic

System for installation of **thickened porcelain stoneware** or **clinker** tiles on floors **subject to heavy traffic**

PRODUCTS

- 1 - REINFORCED CONCRETE SUBSTRATE
- 2 - POLYTHENE SHEET
- 3 - LITOCEM or LITOCEM PRONTO RINFORZATO
- 4 - HYPERFLEX K100, POWERFLEX K50, SUPERFLEX K77

- 5 - THICKENED PORCELAIN STONEWARE or CLINKER TILES
- 6 - STARLIKE® EVO or EPOXYÉLITE EVO
- 7 - EXPANSION JOINT



③ LITOCEM or LITOCEM PRONTO SCREED



④ HYPERFLEX K100 POWERFLEX K50 SUPERFLEX K77



⑥ STARLIKE® EVO or EPOXYÉLITE EVO



Metal surfaces

System for installation of **ceramic and porcelain tiles** on **metal surfaces**

PRODUCTS

- 1 - SMOOTH METAL SHEET
- 2 - LITOELASTIC EVO
- 3 - CERAMIC AND PORCELAIN TILES

- 4 - STARLIKE® EVO or EPOXYÉLITE EVO
- 5- OTTOSEAL S100/105 or S70 (perimeter joint)



② LITOELASTIC EVO



④ STARLIKE® EVO or EPOXYÉLITE EVO



⑤ OTTOSEAL S100/105 or S70 (perimeter joint)



Maritime sector

Application systems in accordance with the requirements of Part 5 of the IMO FTP Code 2010 as “finishing material for bulkheads and ceilings” for the maritime sector.

PRODUCTS



LITOELASTIC EVO FR



STARLIKE® EVO



STARLIKE® CRYSTAL EVO



STARLIKE® COLOR CRYSTAL EVO



EPOXYÉLITE EVO FR



Façades

System for installation on **ceramic and porcelain tiles on façades**.

The red lines indicate the correct position of the elastic divider joints on façade coverings.

PRODUCTS

- 1 - CEMENTITIOUS PLASTER or CONCRETE
- 2 – HYPERFLEX K100/SUPERFLEX K77/ POWERFLEX K50/LITOELASTIC EVO

- 3 – STARLIKE® EVO/EPOXYÉLITE EVO/STYLEGROUT or FILLGOOD EVO
- 4 – OTTOPRIMER 1216 + OTTOSEAL S100/105 or S70



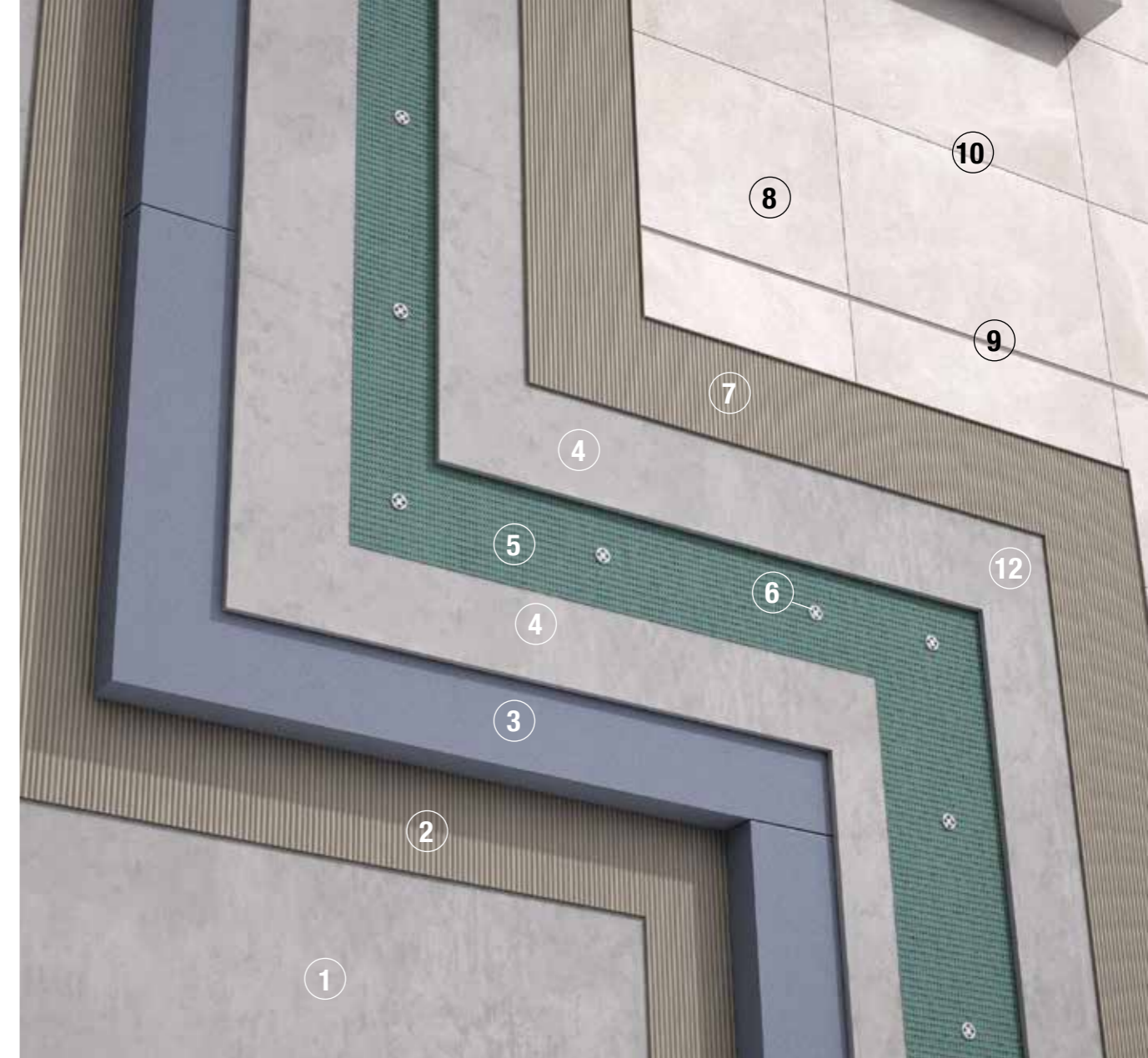
2 HYPERFLEX K100/SUPERFLEX K77/ POWERFLEX K50/LITOELASTIC EVO



3 STARLIKE® EVO/EPOXYÉLITE EVO/STYLEGROUT 0-8/ STYLEGROUT TECH/ FILLGOOD EVO



4 OTTOPRIMER 1216 + OTTOSEAL S100/105 or S70



Exterior insulation and finishing systems

System for installation on **façades over exterior insulation and finishing systems**

PRODUCTS

- 1 - CONCRETE
- 2 – ADHESIVE
- 3 – INSULATING PANELS
- 4 – LOW MODULE STRUCTURAL PLASTER
- 5 - LITOMESH

- 6 – WALL PLUGS
- 7 – HYPERFLEX K100 or LITOELASTIC EVO
- 8 - THIN PORCELAIN STONEWARE SLAB
- 9 – DIVIDER JOINT WITH OTTOSEAL S70
- 10 – STARLIKE® EVO, STYLEGROUT or FILLGOOD EVO



5 LITOMESH



7 HYPERFLEX K100/LITOELASTIC EVO



9 OTTOSEAL S70



10 STARLIKE EVO®, STYLEGROUT 0-8, STYLEGROUT TECH STYLEGROUT 3-20 / FILLGOOD EVO



Starlike® Decor decorative skim coat

System for creating surfaces with Starlike®EVO in the Starlike® Decor decorative skim coat for **internal walls**

PRODUCTS

- 1 - RAW CEMENTITIOUS PLASTER
- 2 - PRIMER C
- 3 - MULTIFONDO EVO
- 4 - STARLIKE® EVO + STARLIKE® DECOR (first coat "zero" smoothing)

- 5 - STARLIKE® EVO + STARLIKE® DECOR (second "zero" coat - cloudy effect)
- 6 - STARLIKE® EVO + STARLIKE® DECOR (third "zero" coat - smooth finish, fresh-on-fresh effect)
- 7 - Decoration made with STARLIKE® EVO and STENDECOR, clear matt or satin Hydrolux EVO finish



2 PRIMER C



3 MULTIFONDO EVO



4 5 6 STARLIKE® EVO + STARLIKE® DECOR



7 STENDECOR + HYDROLUX EVO



Starlike® Decor decorative skim coat

System for the creation of surfaces with Starlike®EVO in the Starlike®Decor skim coat version **over existing ceramic and porcelain tiles**

PRODUCTS

- 1 - EXISTING CERAMIC AND PORCELAIN TILES
- 2 - MULTIFONDO EVO (first coat)
- 3 - LITOMESH
- 4 - MULTIFONDO EVO (second coat)
- 5 - STARLIKE® EVO + STARLIKE® DECOR (first coat "zero" smoothing)

- 6 - STARLIKE® EVO + STARLIKE® DECOR (second "zero" coat - cloudy effect)
- 7 - STARLIKE® EVO + STARLIKE® DECOR (third "zero" coat smooth finish - opaque effect)
- 8 - Decoration made with Starlike® EVO and STENDECOR, clear matt or satin Hydrolux EVO finish



2 4 MULTIFONDO EVO



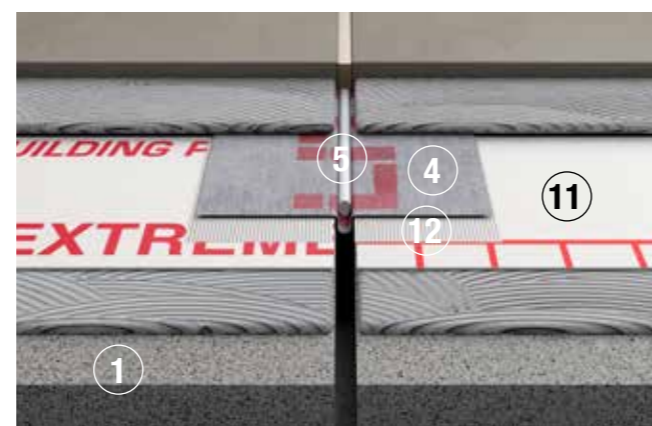
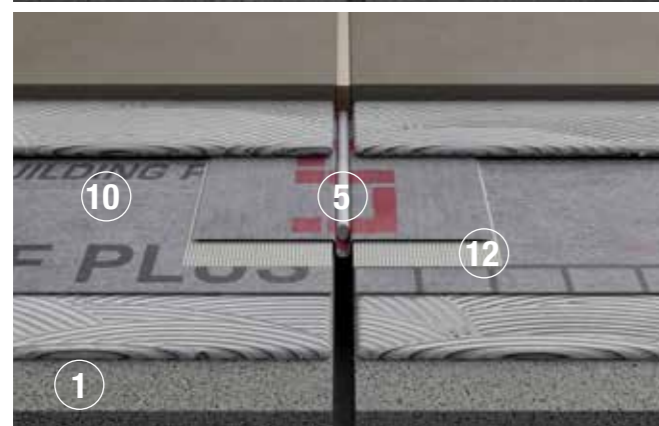
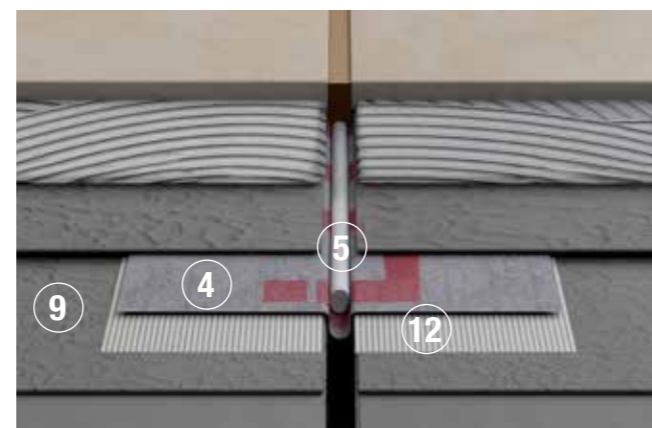
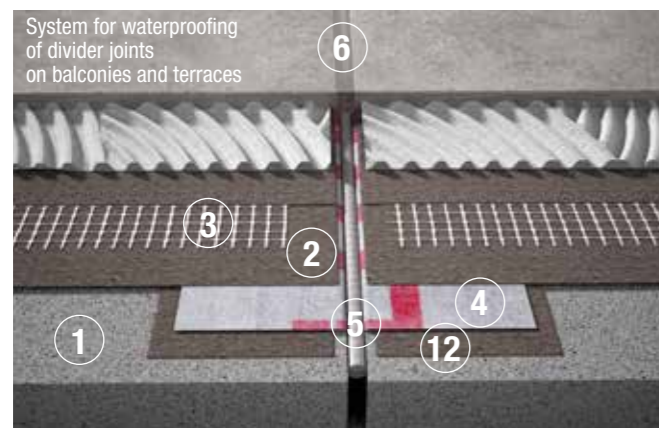
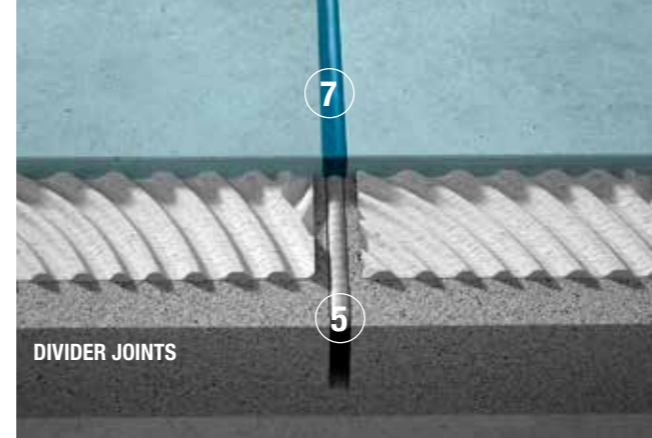
3 LITOMESH



5 6 STARLIKE® EVO + STARLIKE® DECOR



8 STENDECOR + HYDROLUX EVO



> Substrate preparation

Joints

System for **perimeter** and **divider joints** developed in-situ

PRODUCTS

- 1 - LITOCEM or LITOCEM PRONTO
- 2 - COVERFLEX/ELASTOCEM
- 3 - LITOMESH
- 4 - LITOBAND SK Tape

- 5 - LITOGAP
- 6 - OTTOPRIMER 1216 + OTTOSEAL S70
- 7 - OTTOSEAL S100/105
- 8 - LITOSIDE

- 9 - AQUAMASTER EVO
- 10 - LITOPROOF PLUS
- 11 - LITOPROOF EXTREME
- 12 - LITOBAND KOLL or LITOSIL MS



1 LITOCEM or LITOCEM PRONTO



2 COVERFLEX or ELASTOCEM



3 LITOMESH



4 LITOBAND SK Tape



5 LITOGAP



6 OTTOPRIMER 1216 + OTTOSEAL S70
7 OTTOSEAL S100/105



8 LITOSIDE



9 AQUAMASTER EVO



10 LITOPROOF PLUS



11 LITOPROOF EXTREME



12 LITOBAND KOLL or LITOSIL MS



CE Standard



Intended use



Suitable for underfloor heating



Quick-setting



Thickness 1-15 mm



Thickness 1-25 mm



Thickness 3-40 mm



Thickness 20-80 mm

Litocem

Normal-setting fast-drying special hydraulic binder for screeds. Suitable for underfloor heating. For interiors and exteriors.

ADVANTAGES

- Suitable for the development of floating or bonded screeds in indoor and outdoor areas, ideal for subsequent installation of ceramic and porcelain tiles after 24 hours, natural stones after 2 days, wood, PVC, linoleum, carpet flooring after 14 days
- Suitable for interior and exterior applications.
- No shrinkage during setting, which prevents the formation of crackings or fissures
- Development of screeds with incorporated heating coils without the need for fluidifying additives
- Quickly develops high mechanical strength, setting to light foot traffic in just 12 hours

TECHNICAL FEATURES

Colour: Grey
Mixing ratios:
Litocem 20 kg (1 bag)
Fine gravel 0/8 mm = 170-210 kg
Water = < 10 litres (depending on the humidity of the aggregates)
Mixing time: 5-10 minutes
Mix consistency: Wet earth
Pot life: Approx. 60 minutes
Application temperatures allowed:
From +5°C to +35°C

Light foot traffic: 12 hours
Waiting time for installation:
Ceramic and porcelain tiles: 24 hours
Natural stone: 48 hours
Parquet, PVC, linoleum, carpet: 14 days
Consumption: 2-2.5 kg/m² for every cm of thickness
Shelf life:
12 months in original packaging in a dry place.
Packaging: 20 kg bags

Litocem Pronto

Ready-mixed ready-to-use normal-setting mortar for the development of screeds with fast drying and controlled shrinkage. Suitable for underfloor heating. For interiors and exteriors. Product with very low volatile organic compound emission rate.

ADVANTAGES

- Product with ultra-low volatile organic compound (VOC) emission rate. Compliant with class EC1^{PLUS} according to the EMICODE protocol and class A+ (Émission dans l'air intérieur - French regulations)
- Ready-to-use product that requires only the addition of water
- Development of screeds with incorporated heating coils without the need for fluidifying additives
- Suitable for the development of floating or bonded screeds in indoor and outdoor areas, ideal for subsequent installation of ceramic and porcelain tiles after 24 hours, natural stones after 2 days, wood, PVC, linoleum, carpet flooring after 4 days

TECHNICAL FEATURES

Colour: Grey
Mix ratio:
Water = 1.6 litres per 25 kg bag
Mixing time: 5 - 10 minutes
Mix consistency: Wet earth
Pot life: about 60 minutes
Application temperatures allowed:
From +5°C to +35°C
Light foot traffic: After 12 hours
Applicable thicknesses:
Adhering screeds: from 20 to 40 mm
Floating or unbonded screeds: 40 to 80 mm
Maximum thickness: ≤ 80 mm

Waiting time for installation:
Ceramic and porcelain: 24 hours
Natural stone: 24 hours
Timber and resilient: 4 days
Consumption: 19 - 20 kg/m² per cm of thickness
Shelf life:
12 months in original packaging in a dry place.
Packaging: 25 kg bags

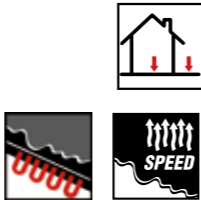
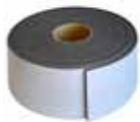
Litoside

Self-adhesive band in expanded polyethylene for perimeter separation joints

ADVANTAGES

- Totally non-absorbent of water
- Retains its features unaltered over time
- Compressible and elastic

see Special products page 107



Litoliv S40 Eco

Quick-setting and fast drying cementitious self-leveller for levelling of substrates with thickness between 3 and 40 mm. Suitable for underfloor heating. For interiors and exteriors. Fibre-reinforced. Product with very low volatile organic compound emission rate.

ADVANTAGES

- Product with ultra-low volatile organic compound (VOC) emission rate. Compliant with class EC1^{PLUS} according to the EMICODE protocol and class A+ (Émission dans l'air intérieur - French regulations)
- High abrasion resistance
- Quick-setting and fast drying
- Development of screeds with incorporated heating coils without the need for fluidifying additives
- Excellent self-levelling effect
- Suitable for substrate levelling in electric and hot water underfloor heating
- Excellent adhesion on traditional cementitious substrates
- No shrinkage during setting, which prevents the formation of crackings or fissures
- Fibre-reinforced product with improved resistance to expansion stresses in the presence of underfloor heating

TECHNICAL FEATURES

Colour: Grey
Mix ratio:
Water = 4.4-4.8 litres per 20 kg bag
Mix curing time: 3 minutes
Mix consistency:
Self-levelling fluid
Pot life: Approx. 20 minutes
Application temperatures allowed:
From +5°C to +35°C
Applicable thickness: from 1 to 40 mm

Consumption: 1.6 kg/m² per every mm of thickness
Light foot traffic: 6 hours
Waiting time for installation:
Ceramic and porcelain tiles and natural stone: 12 hours
Resilient materials and parquet: 24 hours
Shelf life:
12 months in original packaging in a dry place.
Packaging: 20 kg bags

Litoliv Extra 15

Ultra-quick-setting and fast drying cementitious self-leveller for levelling of substrates with thickness between 1 and 15 mm. Suitable for underfloor heating. For interiors. Product with very low volatile organic compound emission rate.

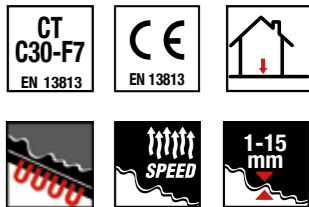
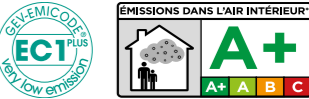
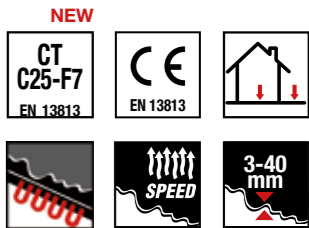
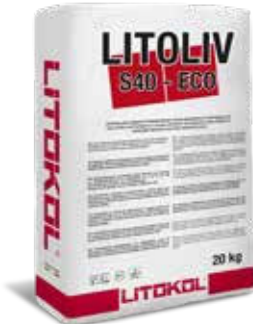
ADVANTAGES

- Product with ultra-low volatile organic compound (VOC) emission rate. Compliant with class EC1^{PLUS} according to the EMICODE protocol and class A+ (Émission dans l'air intérieur - French regulations)
- Excellent adhesion on traditional cementitious substrates
- Quick-setting and fast drying
- High abrasion resistance
- Excellent self-levelling effect
- No shrinkage during setting, which prevents the formation of crackings or fissures

TECHNICAL FEATURES

Colour: Grey
Mix ratio:
Water = 5.2-5.6 litres per 20 kg bag
Mix curing time: 3 minutes
Mix consistency: Self-levelling fluid
Pot life: Approx. 30 minutes
Application temperatures allowed: From +5°C to +35°C
Applicable thicknesses: From 1 to 15 mm

Consumption: 1.7 kg/m² per every mm of thickness
Light foot traffic: 3 hours
Waiting time for installation:
Ceramics, natural stones: 12 hours
Resilient materials, wood flooring: 24 hours
Shelf life:
12 months in original packaging in a dry place.
Packaging: 20 kg bags



Litoliv Express

Quick-setting and fast drying cementitious self-leveller for levelling of substrates with thickness between 3 and 40 mm. Suitable for underfloor heating. For interiors. Fibre-reinforced. Product with very low volatile organic compound emission rate.

ADVANTAGES

- Product with ultra-low volatile organic compound (VOC) emission rate. Compliant with class EC1^{PLUS} according to the EMICODE protocol and class A+ (Émission dans l'air intérieur - French regulations)
- Suitable for the development of floating or bonded screeds in indoor and outdoor areas, ideal for subsequent installation of ceramic and porcelain tiles after 24 hours, natural stones after 2 days, wood, PVC, linoleum, carpet flooring after 14 days
- Excellent adhesion on traditional cementitious substrates
- Quick-setting and fast drying
- Development of screeds with incorporated heating coils without the need for fluidifying additives
- Excellent self-levelling effect
- Suitable for substrate levelling in electric and hot water underfloor heating
- No shrinkage during setting, which prevents the formation of crackings or fissures
- Fibre-reinforced product with improved resistance to expansion stresses in the presence of underfloor heating

TECHNICAL FEATURES

Colour: Grey
Mix ratio:
Water = 4.8 litres per 20 kg bag
Mix curing time: 3 minutes
Mix consistency:
Self-levelling fluid
Pot life:
Approx. 30 minutes
Application temperatures allowed:
From +5°C to +35°C

Applicable thicknesses: From 3 to 40 mm
Consumption: 1.6 kg/m² per every mm of thickness
Light foot traffic: 3 hours
Waiting time for installation: 24 hours
Shelf life:
12 months in original packaging in a dry place.
Packaging: 20 kg bags



Litoplan Smart

Cement-based thixotropic levelling layer featuring rapid hardening and drying for vertical and horizontal applications for indoors and outdoors with thickness ranging from 1 to 25 mm. Product with very low volatile organic compound (VOC) emission rate.

ADVANTAGES

- Product with ultra-low volatile organic compound (VOC) emission rate. Compliant with class EC1^{PLUS} according to the EMICODE protocol and class A+ (Émission dans l'air intérieur - French regulations)
- Extended workability of mix (about 60 minutes), which allows easy application on large surfaces
- Quick-setting and fast drying
- Development of high mechanical flexural and compressive strength just 4 hours after application
- Excellent adhesion on traditional cementitious substrates
- Suitable for interior and exterior applications.
- No shrinkage during setting, which prevents the formation of crackings or fissures
- Possibility to obtain a smooth surface finish using a sponge trowel slightly dampened with water. The operation must be carried out when the applied product starts to set and is sufficiently hard

TECHNICAL FEATURES

Colour: Grey
Mixing ratios:
Water = 4-4.8 litres per 20 kg bag.
Mix curing time: 5 minutes
Mix consistency:
Creamy thixotropic mortar
Pot life:
Approx. 60 minutes
Application temperatures allowed:
From +5°C to +35°C

Applicable thicknesses: From 1 to 25 mm
Consumption: 1.6 kg/m² per every mm of thickness
Light foot traffic: 3 hours
Waiting time for installation:
Ceramic and porcelain tiles and natural stone: 4-6 hours
Parquet, textiles and resilient floor materials: 24 hours
Shelf life:
12 months in original packaging in a dry place.
Packaging: 20 kg bags



Prepara Fondo EVO

see Special products page 106

Universal adhesion promoter primer for adhesives, self-levellers, skim coats and cement plasters on smooth and non-absorbent surfaces. Suitable for overlaying and underfloor heating. For interiors and exteriors. Ready to use. Product with very low volatile organic compound emission rate.

ADVANTAGES

- Product with ultra-low volatile organic compound (VOC) emission rate. Compliant with class EC1^{PLUS} according to the EMICODE protocol and class A+ (Émission dans l'air intérieur - French regulations)
- Ready to use
- Adheres perfectly to different types of substrates such as: concrete, fibre cement panels, PVC, linoleum, wood, ceramic and porcelain tiles, stoneware, natural stones, surfaces with organic adhesive residue
- Easy and quick installation. Dries after 2 hours. Overlaying possible after 4 hours
- Suitable for interior and exterior floor and wall applications, even in severe operating conditions
- Excellent resistance to humidity
- Product with pseudoplastic rheology which prevents dripping on wall applications.



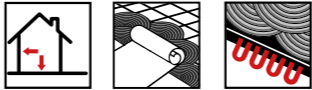
Litotex

see Special products page 103

Anti-fracture separation membrane for the installation of floors and coverings in ceramic and porcelain tiles, porcelain stoneware and natural stones, even removable. For interiors.

ADVANTAGES

- Anti-fracture membrane for the installation of ceramics or natural stones on cracked cement screeds
- Removable separation membrane for the interior installation of ceramics or natural stones, protecting the existing substrates
- Suitable for overlaying on existing flooring



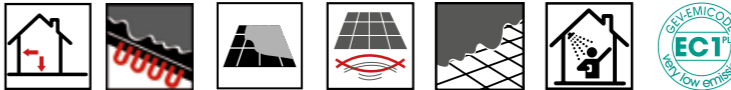
Multifondo EVO

see Special products page 106

Two-component epoxy skim coat. Suitable for overlaying and underfloor heating. For interiors. Product with very low volatile organic compound emission rate.

ADVANTAGES

- Product with very low volatile organic compound (VOC) emission rate, compliant with class A+ (Émission dans l'air intérieur - French Regulations)
- White colour that enhances the colours of the Spazioccontinuo® and Starlike® Decor textures without altering their original shade
- Suitable to repair any crackings and fissures in cement screeds, sprinkling quartz sand with granulometry 0.4-1 mm over the surface while fresh, before applying adhesives, self-levellers or cementitious skim coats, and waterproofing membranes.





Litokol K17 - Litokol K18

Cementitious adhesive for the installation of ceramic and porcelain tiles on interior walls and floors, and on exterior floors. Product with very low volatile organic compound emission rate.

ADVANTAGES

- Product with ultra-low volatile organic compound (VOC) emission rate. Compliant with class EC1^{PLUS} according to the EMICODE protocol and class A+ (Émission dans l'air intérieur - French regulations)
- Maintains excellent workability over time, without any bothersome thickening

TECHNICAL FEATURES

Colour: Grey (K17) - White (K18)

Mix ratio:

Water = 4.8 litres per 20 kg bag

Latexkol = 6.0 litres per 20 kg bag

Mix curing time: 5 minutes

Mix consistency: Creamy mortar

Pot life: Approx. 8 hours

Application: Notched trowel

Applicable thickness: from 1 to 5 mm

Application temperatures allowed:

From +5°C to +35°C

Open time (EN1346):

≥ 0,5 N/mm² after 20 minutes

Waiting time for grouting:

Wall: 6 - 8 hours - Floor: 24 hours

Light foot traffic: 24 hours

Ready for use: 7 days

Temperature of use:

From -30°C to +80°C

Consumption:

6 mm trowel: 2.5 kg/m²

8 mm trowel: 3 kg/m²

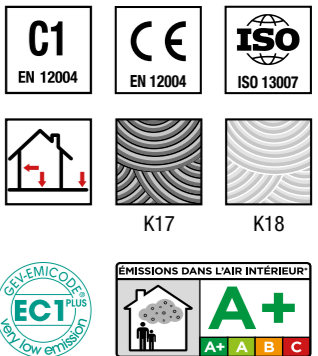
10 mm trowel: 3.5 kg/m²

Back-buttering: 5 kg/m²

Shelf life:

12 months in original packaging in a dry place.

Packaging: 20 kg bags



➤ Adhesives: cementitious, in dispersion and reactive



Intended use



Colour grey



Colour white



Suitable for overlaying



Suitable for installation on underfloor heating



Suitable for installation in swimming pools



No vertical slip



Quick-setting



Function
Dust Reduction



Suitable for elastic and vibrating substrates or metal surfaces

ADVANTAGES

- Product with ultra-low volatile organic compound (VOC) emission rate. Compliant with class EC1^{PLUS} according to the EMICODE protocol and class A+ (Émission dans l'air intérieur - French regulations)
- Maintains excellent workability over time, without any bothersome thickening
- Allows the installation on walls of ceramic and porcelain tiles and ceramic mosaics without the need for plastic spacers
- Suitable for installation on heating screeds
- Suitable for overlaying on existing flooring

TECHNICAL FEATURES

Colour: Grey (X11) - White (X12)

Mix ratio:

Water = 6 litres per 20 kg bag

Mix curing time: 5 minutes

Mix consistency:

Creamy thixotropic mortar

Pot life: Approx. 8 hours

Application: Notched trowel

Applicable thickness: from 1 to 10 mm

Application temperatures allowed:

From +5°C to +35°C

Open time (EN1346):

≥ 0,5 N/mm² after 30 minutes

Waiting time for grouting:

Wall: 4 - 8 hours - Floor: 24 hours

Light foot traffic: 24 hours

Ready for use: 7 days

Temperature of use:

From -30°C to +80°C

Consumption:

3.5 mm trowel: 1.8 kg/m²

6 mm trowel: 2.5 kg/m²

8 mm trowel: 3 kg/m²

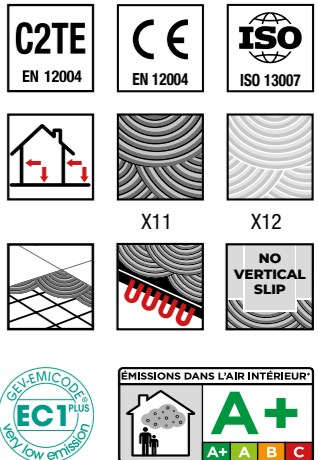
10 mm trowel: 3.5 kg/m²

Back-buttering: 5 kg/m²

Shelf life:

12 months in original packaging in a dry place.

Packaging: 20 kg bags



Litoflex Pro K80

High-performance cementitious adhesive with no vertical slip and extended open time for the installation of ceramic and porcelain tiles, porcelain stoneware, mosaics and natural stone on indoor and outdoor floors and walls. Suitable for overlaying and underfloor heating. Product with very low volatile organic compound emission rate.

- ADVANTAGES
- Versatile product. Can also be used on underfloor heating and over existing ceramic and porcelain tiles
 - Suitable for installation on heating screeds
 - Suitable for overlaying on existing flooring
 - Suitable for interior and exterior floor and wall applications, even in severe operating conditions
 - Maintains excellent workability over time, without any bothersome thickening

TECHNICAL FEATURES

Colour: White / Grey

Mix ratio:

Water = 5.4-5.8 litres per 20 kg bag

Mix curing time: 5 minutes

Mix consistency:

Creamy thixotropic mortar

Pot life: Approx. 8 hours

Application: Notched trowel

Applicable thickness: from 1 to 10 mm

Application temperatures allowed:

From +5°C to +35°C

Open time (EN1346):

≥ 0,5 N/mm² after 30 minutes

Waiting time for grouting:

Wall: 6 - 8 hours - Floor: 24 hours

Light foot traffic: 24 hours

Ready for use: 7 days

Temperature of use:

From -30°C to +80°C

Consumption:

6 mm trowel: 2.5 kg/m²

8 mm trowel: 3 kg/m²

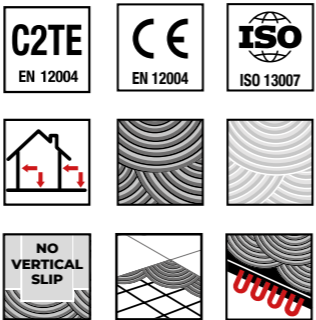
10 mm trowel: 3.5 kg/m²

Back-buttering: 5 kg/m²

Shelf life:

12 months in original packaging in dry place.

Packaging: 20 kg bags



Litoplus K55

High-performance cementitious adhesive with no vertical slip and extended open time for the installation of ceramic and porcelain tiles, porcelain stoneware, natural stone, mosaics and vitreous mosaics on indoor and outdoor floors and walls. Ideal for installation in pools, tubs, fountains, Turkish baths and Spas. Product with ultra-low emission of volatile organic substances.

- ADVANTAGES
- The super white colour enhances the shades of vitreous mosaics
 - Allows the installation on walls of ceramic and porcelain tiles and ceramic mosaics without the need for plastic spacers
 - Suitable for installation on heating screeds
 - Suitable for overlaying on existing flooring
 - Suitable for interior and exterior floor and wall applications, even in severe operating conditions
 - Maintains excellent workability over time, without any bothersome thickening
 - The special additives give the product a very fluid texture and facilitate application using a notched trowel
 - Product with excellent water-resistance

TECHNICAL FEATURES

Colour: White / Grey

Mix ratio:

Water = 7 litres per 20 kg bag (white)

Water = 5.2-6.8 litres per 20 kg bag (grey)

Mix curing time: 5 minutes

Mix consistency:

Creamy thixotropic mortar

Pot life: Approx. 3 hours

Application: Notched trowel

Applicable thickness: from 1 to 10 mm

Application temperatures allowed:

From +5°C to +35°C

Open time (EN1346):

≥ 0,5 N/mm² after 30 minutes

Waiting time for grouting:

Wall: 4 - 6 hours - Floor: 24 hours

Light foot traffic: 24 hours

Ready for use: 7 days - Swimming pools: 7 days

Temperature of use:

From -30°C to +80°C

Consumption:

3.5 mm trowel: 1.8 kg/m²

6 mm trowel: 2.5 kg/m²

8 mm trowel: 3 kg/m²

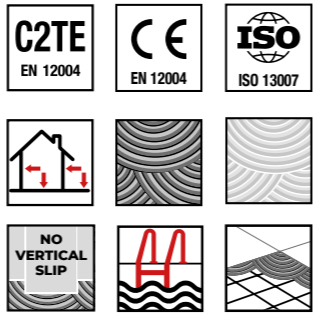
10 mm trowel: 3.5 kg/m²

Back-buttering: 5 kg/m²

Shelf life:

12 months in original packaging in a dry place.

Packaging: 20 kg bags



Powerflex K50

High-performance cementitious adhesive with deformation ability, no vertical slip and extended open time for the installation of ceramic and porcelain tiles, porcelain stoneware, mosaics and natural stone, also in large sizes, on indoor and outdoor floors and walls. Suitable for overlaying and underfloor heating.

- ADVANTAGES
- Product with ultra-low volatile organic compound (VOC) emission rate. Compliant with class EC1PLUS according to the EMICODE protocol and class A+ (Émission dans l'air intérieur - French regulations)
 - Single-component deformable product (class S1 according to EN 12004)
 - Allows the installation on walls of ceramic and porcelain tiles and ceramic mosaics without the need for plastic spacers
 - Suitable for overlaying on existing flooring
 - Maintains excellent workability over time, without any bothersome thickening
 - The special additives give the product a very fluid texture and facilitate application using a notched trowel
 - Suitable for interior and exterior applications.

TECHNICAL FEATURES

Colour: White / Grey

Mix ratio:

Water = 5.8 litres per 20 kg bag

Mix curing time: 5 minutes

Mix consistency:

Creamy thixotropic mortar

Pot life: Approx. 8 hours

Application temperatures allowed:

From +5°C to +35°C

Open time (EN1346):

≥ 0,5 N/mm² after 30 minutes

Applicable thickness: from 1 to 15 mm

Consumption:

6 mm trowel: 2.5 kg/m²

10 mm trowel: 4 kg/m²

Back-buttering: 5.5 kg/m²

Light foot traffic: 24 hours

Ready for use: 7 days

Waiting time for grouting:

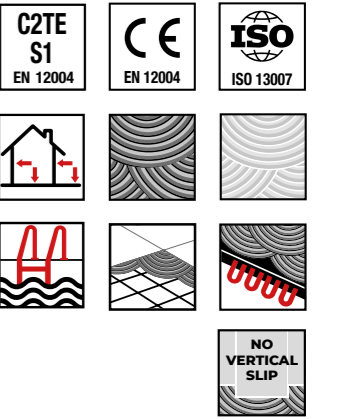
Floor: approx. 6 - 8 hours

Wall: approx. 24 hours

Shelf life:

12 months in original packaging when stored in a dry place

Packaging: 20 kg bags



Superflex K77

High-performance cementitious adhesive with deformation ability, no vertical slip and extended open time for the installation of ceramic and porcelain tiles, porcelain stoneware and natural stone in large sizes, vitreous and ceramic mosaics on indoor and outdoor floors and walls.

- ADVANTAGES
- Product with ultra-low volatile organic compound (VOC) emission rate. Compliant with class EC1PLUS according to the EMICODE protocol and class A+ (Émission dans l'air intérieur - French regulations)
 - Versatile product. Can also be used on underfloor heating and over existing ceramic and porcelain tiles
 - Allows the installation on walls of ceramic and porcelain tiles and ceramic mosaics without the need for plastic spacers
 - Maintains excellent workability over time, without any bothersome thickening
 - The special additives give the product a very fluid texture and facilitate application using a notched trowel
 - The super white colour enhances the shades of vitreous mosaics
 - Single-component deformable product (class S1 according to EN 12004)
 - The Dust Reduction function applied to the product allows a drastic reduction in the amount of dust produced during mixing with water, thus improving the working conditions of installers

TECHNICAL FEATURES

Colour: White / Grey

Mix ratio:

Water = 6.4-6.8 litres per 20 kg bag (white)

Water = 6.4-6.8 litres per 20 kg bag (grey)

Pot life: Approx. 8 hours

Applicable thickness: from 1 to 15 mm

Waiting time for grouting:

Floor: 6 - 8 hours

Wall: 24 hours

Light foot traffic: 24 hours

Ready for use: 7 days - Swimming pools 7 days

Consumption:

3.5 mm trowel: 1.8 kg/m²

6 mm trowel: 2.5 kg/m²

8 mm trowel: 3 kg/m²

10 mm trowel: 4 kg/m²

Back-buttering: 5.5 kg/m²

Shelf life:

12 months in original packaging in a dry place.

Packaging: 20 kg bags



Hyperflex K100

High-performance cementitious adhesive with excellent deformation ability, no vertical slip and extended open time for the installation of ceramic and porcelain tiles, porcelain stoneware, large size slabs, mosaics and natural stone on indoor and outdoor floors and walls. Product with ultra-low emission of volatile organic substances.

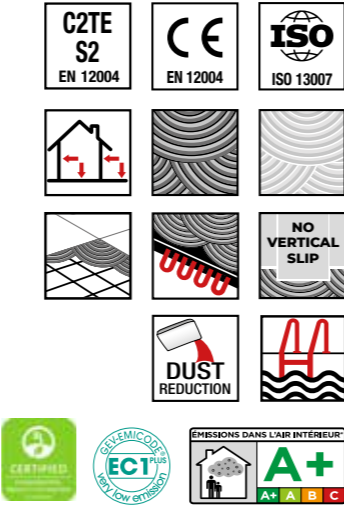
ADVANTAGES

- Ideal for the installation of large tiles even with fibre-reinforced backing, including overlaying and wall coverings
- Versatile product. Can also be used on underfloor heating and over existing ceramic and porcelain tiles
- Allows the installation on walls of ceramic and porcelain tiles and ceramic mosaics without the need for plastic spacers
- Single-component highly deformable product (class S2 according to EN 12004)
- Maintains excellent workability over time, without any bothersome thickening
- The Dust Reduction function applied to the product allows a drastic reduction in the amount of dust produced during mixing with water, thus improving the working conditions of installers
- The super white colour enhances the shades of vitreous mosaics

TECHNICAL FEATURES

Colour: White / Grey
Mix ratio:
Water = 6.6-7 litres per 20 kg bag
Mix curing time: 5 minutes
Mix consistency:
Creamy thixotropic mortar
Pot life: Approx. 8 hours
Application: Notched trowel
Applicable thickness: from 1 to 15 mm
Application temperatures allowed:
From +5°C to +35°C
Open time (EN1346):
≥ 0,5 N/mm² after 30 minutes
Waiting time for grouting:
Wall: 6 - 8 hours - Floor: 24 hours

Light foot traffic: 24 hours
Ready for use: 7 days - Swimming pools 7 days
Temperature of use: From -30°C to +80°C
How to clean equipment:
With water when product is fresh.
Mechanically when product has set.
Consumption:
3.5 mm trowel: 1.6 kg/m²
6 mm trowel: 2.1 kg/m²
10 mm trowel: 3.2 kg/m²
Back-buttering: 4.5 kg/m²
Shelf life:
12 months in original packaging in a dry place.
Packaging: 20 kg bags



NEW

Rapidflex K91

High-performance cementitious adhesive with rapid setting, deformation ability with no vertical slip and extended open time for the installation of ceramic and porcelain tiles, porcelain stoneware and natural stone in large sizes, vitreous and ceramic mosaics on indoor and outdoor floors and walls. Suitable for swimming pools, overlaying and underfloor heating. Product with very low volatile organic compound (VOC) emission rate.

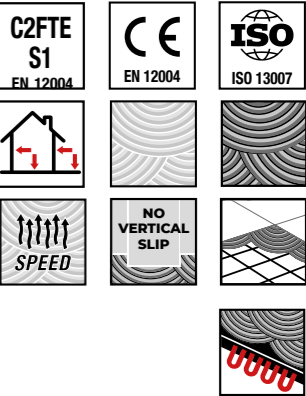
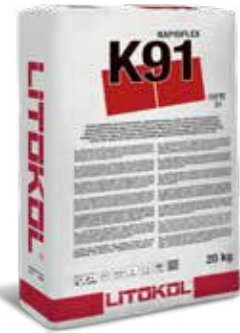
ADVANTAGES

- Single-component deformable product (class S1 according to EN 12004)
- Extended workability of mix (about 45 minutes), which facilitates application on large surfaces
- Quickly develops high mechanical strength, setting to light foot traffic in just 3 hours

TECHNICAL FEATURES

Colour: White and Grey
Mix ratio:
Water = 4.6-5.8 litres per 20 kg bag (white)
Water = 4-5.2 litres per 20 kg bag (grey)
Mix curing time: 5 minutes
Mix consistency:
Creamy thixotropic mortar
Applicable thickness: from 1 to 15 mm
Pot life: Approx. 60 minutes
Application temperatures allowed:
From +5°C to +30°C
Open time (EN1346):
≥ 0,5 N/mm² after 30 minutes

Consumption:
3.5 mm trowel: 1.8 kg/m²
6 mm trowel: 2.5 kg/m²
8 mm trowel: 3 kg/m²
10 mm trowel: 3.5 kg/m²
Back-buttering: 5 kg/m²
Light foot traffic: 3 hours
Ready for use: 24 hours
Waiting time for grouting: Approx. 3 hours
Shelf life:
12 months in original packaging in a dry place.
Packaging: 20 kg bags



Litorapid K90

High-performance cementitious adhesive with rapid setting, no vertical slip and extended open time for the installation of ceramic and porcelain tiles, porcelain stoneware, natural stones, vitreous and ceramic mosaics on indoor and outdoor floors and walls. Suitable for swimming pools, overlaying and underfloor heating. Product with very low volatile organic compound (VOC) emission rate.

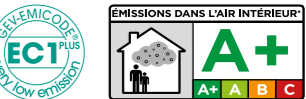
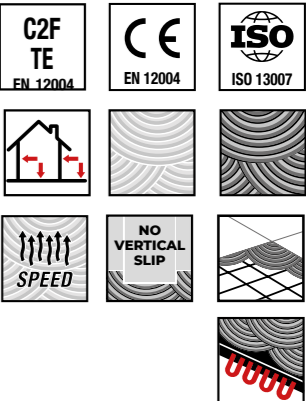
ADVANTAGES

- Product with ultra-low volatile organic compound (VOC) emission rate. Complies with class EC1^{PLUS} according to the EMICODE protocol and class A+ (Émission dans l'air intérieur - French Regulations).
- Extended workability of mix (about 45 minutes), which facilitates application on large surfaces
- Quickly develops high mechanical strength, setting to light foot traffic in just 3 hours

TECHNICAL FEATURES

Colour: White and Grey
Mix ratio:
Water = 4.8-5.6 litres per 20 kg bag (white)
Water = 4.2-5 litres per 20 kg bag (grey)
Mix curing time: 5 minutes
Mix consistency:
Creamy thixotropic mortar
Applicable thickness: from 1 to 10 mm
Pot life: Approx. 60 minutes
Application temperatures allowed:
From +5°C to +30°C
Open time (EN1346):
≥ 0,5 N/mm² after 30 minutes

Consumption:
3.5 mm trowel: 1.8 kg/m²
6 mm trowel: 2.5 kg/m²
8 mm trowel: 3 kg/m²
10 mm trowel: 3.5 kg/m²
Back-buttering: 5 kg/m²
Light foot traffic: 3 hours
Ready for use: 24 hours
Waiting time for grouting: 3 hours
Shelf life:
12 months in original packaging in a dry place.
Packaging: 20 kg bags





Litoacril Plus

High-performance adhesive in dispersion with no vertical slip and extended open time for the installation of ceramic and porcelain tiles also in indoor wet areas. Suitable for overlaying and underfloor heating.

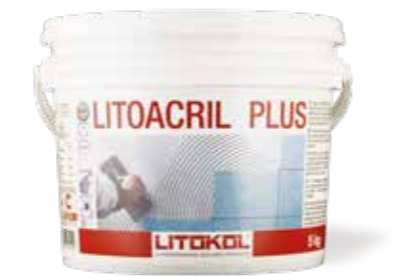
ADVANTAGES

- Allows the installation on walls of ceramic and porcelain tiles and ceramic mosaics without the need for plastic spacers
- Suitable for installation on heating screeds
- Suitable for overlaying on existing flooring
- Bonding on all types of ceramic and porcelain tiles and mosaics in interiors on floors and walls
- Ideal for application on gypsum-based plasters with no need to apply a primer beforehand
- The special additives give the product a very fluid texture and facilitate application using a notched trowel
- Product not subject to restrictions for road, sea, air and rail transport

TECHNICAL FEATURES

Colour: White
Application: notched trowel
Application temperatures allowed:
From +5°C to +35°C
Open time (EN1346):
≥ 0,5 N/mm² after 30 minutes
Applicable thickness: from 1 to 5 mm
Consumption:
3.5 mm trowel: 1.5 kg/m²
6 mm trowel: 2.5 kg/m²
8 mm trowel: 3 kg/m²
10 mm trowel: 3.5 kg/m²

Light foot traffic: 24 hours
Ready for use: 7 days
Waiting time for grouting:
Wall: 6-8 hours
Floor: 24 hours
Shelf life:
24 months in original packaging in a dry place. Keep away from frost
Packaging: 1 kg and 5 kg buckets.



Litoacril Fix

Ready-to-use adhesive in dispersion with long open time for the installation of ceramic and porcelain tiles. For interiors.

ADVANTAGES

- Bonding on all types of ceramic and porcelain tiles and mosaics in interiors on floors and walls
- Ideal for application on gypsum-based plasters with no need to apply a primer beforehand
- Product not subject to restrictions for road, sea, air and rail transport

TECHNICAL FEATURES

Colour: White
Application: notched trowel
Application temperatures allowed:
From +5°C to +35°C
Open time (EN1346):
≥ 0,5 N/mm² after 30 minutes
Applicable thickness: from 1 to 5 mm
Consumption:
3.5 mm trowel: 1.5 kg/m²
6 mm trowel: 2.5 kg/m²
8 mm trowel: 3 kg/m²
10 mm trowel: 3.5 kg/m²

Light foot traffic: 24 hours
Ready for use: 7 days
Waiting time for grouting: Approx. 24 hours
Shelf life:
24 months in original packaging in a dry place. Protect against frost.
Packaging: 5 kg buckets



Litoacril LA201

Ready-to-use adhesive in dispersion with no vertical slip and long open time for the installation of ceramic and porcelain tiles on interior walls and floors.

ADVANTAGES

- Allows the installation on walls of ceramic and porcelain tiles and ceramic mosaics without the need for plastic spacers
- Bonding on all types of ceramic and porcelain tiles and mosaics in interiors on floors and walls
- Ideal for application on gypsum-based plasters with no need to apply a primer beforehand
- Product not subject to restrictions for road, sea, air and rail transport

TECHNICAL FEATURES

Colour: White
Application: notched trowel
Application temperatures allowed:
From +5°C to +35°C
Open time (EN1346):
≥ 0,5 N/mm² after 30 minutes
Applicable thickness: from 1 to 5 mm
Consumption:
3.5 mm trowel: 1.5 kg/m²
6 mm trowel: 2.5 kg/m²
8 mm trowel: 3 kg/m²
10 mm trowel: 3 kg/m²

Light foot traffic: 24 hours
Ready for use: 7 days
Waiting time for grouting:
Wall: 6-8 hours
Floor: 24 hours
Shelf life:
24 months in original packaging in a dry place. Keep away from frost
Packaging: 5-10-25 kg buckets



Litoacril LA315

Ready-to-use adhesive in dispersion with no vertical slip and long open time for the installation of ceramic and porcelain tiles on interior walls and floors.

ADVANTAGES

- Allows the installation on walls of ceramic and porcelain tiles and ceramic mosaics without the need for plastic spacers
- Bonding on all types of ceramic and porcelain tiles and mosaics in interiors on floors and walls
- Ideal for application on gypsum-based plasters with no need to apply a primer beforehand
- Product not subject to restrictions for road, sea, air and rail transport

TECHNICAL FEATURES

Colour: Grey
Application: notched trowel
Application temperatures allowed:
From +5°C to +35°C
Open time (EN1346):
≥ 0,5 N/mm² after 30 minutes
Applicable thickness: from 1 to 5 mm
Consumption:
3.5 mm trowel: 1.5 kg/m²
6 mm trowel: 2.5 kg/m²
8 mm trowel: 3 kg/m²
10 mm trowel: 3.5 kg/m²

Light foot traffic: 24 hours
Ready for use: 7 days
Waiting time for grouting:
Wall: 6-8 hours
Floor: 24 hours
Shelf life:
24 months in original packaging in a dry place. Protect against frost.
Packaging: 5-10-25 kg buckets



Litoelastic EVO

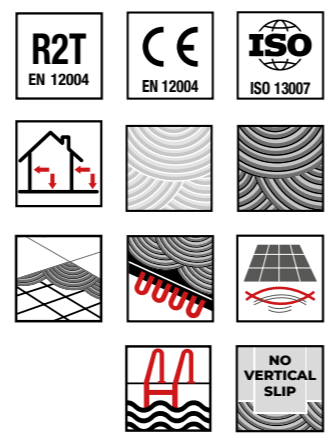
High-performance flexible reactive adhesive with no vertical slip for the installation of all types of ceramic and porcelain tiles on interior and exterior walls and floors. Suitable for overlaying and underfloor heating. Product with very low volatile organic compound emission rate.

ADVANTAGES

- Product with ultra-low volatile organic compound (VOC) emission rate. Compliant with class EC1^{PLUS} according to the EMICODE protocol and class A+ (Émission dans l'air intérieur - French regulations)
- Bonding on all types of ceramic and porcelain tiles and mosaics in interiors on floors and walls
- Multi-purpose adhesive suitable for bonding different types of coverings such as ceramic, porcelain stoneware, large thin slabs, including those with backing, clinkers, vitreous or ceramic mosaics, natural or reconstituted stones, including humidity-sensitive stones, even on non-traditional substrates such as metal, wood, fibreglass, PVC, linoleum
- Suitable for one-step waterproofing and installation of ceramic and porcelain tiles or mosaics in shower enclosures or indoor wet areas
- The super white colour enhances the shades of vitreous mosaics

TECHNICAL FEATURES

Colour: White/Grey
Mix ratio:
 Part A 92.6 parts by weight
 Part B 7.4 parts by weight
Pot life:
 Approx. 60 minutes
Application temperatures allowed:
 From +10°C to +30°C
Open time (EN1346):
 ≥ 0.5 N/mm² after 50 minutes
Bonding time: Approx. 60 minutes
Consumption:
 3.5 mm trowel: 1.8 kg/m²
 6 mm trowel: 2.5 kg/m²



Litoelastic EVO FR

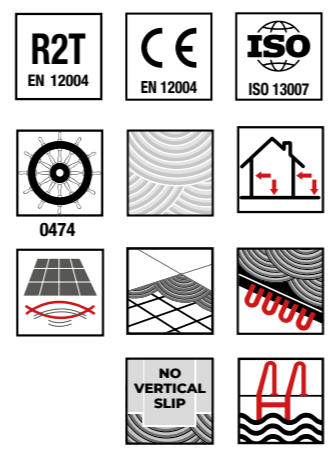
Flexible reactive adhesive with high performance and no vertical slip for the installation of all types of ceramic and porcelain tiles on indoor and outdoor walls and floors. Low flame-spread product compliant with Directive 2014/90/EU (CE MED) according to the IMO 2010 FTP code for use on ships.

ADVANTAGES

- Product with ultra-low volatile organic compound (VOC) emission rate. Compliant with class EC1^{PLUS} according to the EMICODE protocol and class A+ (Émission dans l'air intérieur - French regulations)
- Bonding on all types of ceramic and porcelain tiles and mosaics in interiors on floors and walls
- Multi-purpose adhesive suitable for bonding different types of coverings such as ceramic, porcelain stoneware, large thin slabs, including those with backing, clinkers, vitreous or ceramic mosaics, natural or reconstituted stones, including humidity-sensitive stones, even on non-traditional substrates such as metal, wood, fibreglass, PVC, linoleum
- Suitable for one-step waterproofing and installation of ceramic and porcelain tiles or mosaics in shower enclosures or indoor wet areas
- Product not subject to restrictions for road, sea, air and rail transport

TECHNICAL FEATURES

Colour: White
Mix ratio:
 Part A 92.6 parts by weight
 Part B 7.4 parts by weight
Pot life:
 Approx. 60 minutes
Application temperatures allowed:
 From +10°C to +30°C
Open time (EN1346):
 ≥ 0.5 N/mm² after 50 minutes
Bonding time: Approx. 60 minutes



> Grout for joints



Starlike® EVO

Two-component acid-resistant epoxy grout for the laying and grouting of ceramic tiles and mosaic with joints between 1 and 15 mm width. Patent pending. For interiors and exteriors. Suitable for underfloor heating. Product with very low volatile organic compound emission rate.

ADVANTAGES

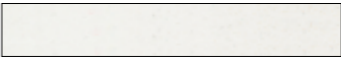
- Unlike other epoxy grouts on the market, the catalyst (Part B) is labelled only as an irritant
- It is neither corrosive nor hazardous for the environment
- The user can therefore rely on a very safe product to work with
- Bacteriostatic product which prevents the spread of fungi and moulds
- High mechanical strength
- Non-absorbent
- Stain-proof
- Excellent chemical resistance
- Stable and consistent colouring on all types of tiles with exclusive chromatic effects
- Recycled material content ≥ 10%
- The products are coloured by the sintered quartz micro spheres, which are surface-coloured, thus avoiding the release of pigments on the surface of the ceramics or mosaics, making cleaning easier and faster
- Extremely easy application and cleaning, even compared to normal cementitious grouts
- The particular fineness of the sintered quartz micro spheres contained in the product makes it possible to obtain extremely smooth and compact finishes
- The product does not contain cement, thus avoiding the formation of efflorescence, typical of cementitious products
- Suitable for interior and exterior floor and wall applications, even in severe operating conditions
- Approved for use on ships as a product with low flame-spread
- Product not subject to restrictions for road, sea, air and rail transport
- Product with ultra-low volatile organic compound (VOC) emission rate. Compliant with class EC1^{PLUS} according to the EMICODE protocol and class A+ (Émission dans l'air intérieur - French regulations)

TECHNICAL FEATURES

Mixing ratios:
Component A: 93.7 parts by weight
Component B: 6.3 parts by weight
Consistency of mix: thixotropic paste
Pot life: Approx. 60 minutes
Joint width: From 1 to 15 mm
Application: grout rubber float
Temperatures for application:
Permitted: from +10°C to +30°C
Recommended: from +18°C to +23°C
Waiting time for grouting: 24 hours
Light foot traffic: 24 hours
Ready for use: 5 days - Swimming pools 7 days
Temperature of use: From -20°C to +100°C
Consumption as adhesive:
2 mm trowel: 1.1 kg/m²
3.5 mm trowel: 1.6 kg/m²
6 mm trowel: 2.5 kg/m²
8 mm trowel: 3 kg/m²
10 mm trowel: 3.5 kg/m²
Consumption as grout: Refer to the product calculator available on litokol.it
Shelf life:
24 months in original packaging in a dry place. Protect against frost.
Packaging: 1-2.5-5 kg bucket



Class



100 Bianco Assoluto



102 Bianco Ghiaccio



105 Bianco Titanio



110 Grigio Perla



115 Grigio Seta



120 Grigio Piombo



125 Grigio Cemento



130 Grigio Ardesia



140 Nero Grafite



145 Nero Carbonio

Class



200 Avorio



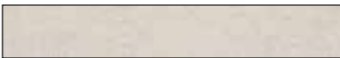
202 Naturale



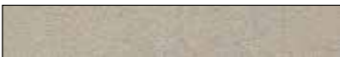
205 Travertino



208 Sabbia



210 Greige



215 Tortora



225 Tabacco



230 Cacao



232 Cuoio



235 Caffè

Glam



300 Azzurro Pastello



310 Azzurro Polvere



320 Azzurro Caraibi



330 Blu Avio



340 Blu Denim



350 Blu Zaffiro



400 Verde Salvia



410 Verde Smeraldo



420 Verde Prato



430 Verde Pino



500 Rosa Cipria



530 Viola Ametista



550 Rosso Oriente



580 Rosso Mattone



600 Giallo Vaniglia



Starlike® EVO - Finishes

Metallic Collection

The Platinum, Shining Gold, Bronze, Copper and Rusty additives, when mixed as a third component with Starlike® EVO in the colour 113 Neutro, give the grouting unique and exclusive metallic effects. These additives are available separately, in pre-dosed containers for the 2.5 - 5 kg bucket of Starlike® EVO 113 Neutro.

Special EFFECTS COLLECTION



Platinum



Shining Gold



Bronze



Rusty



Copper



Metallic collection:
100 g package
200 g package



Starlike® EVO 113 Neutro



Platinum



Shining Gold



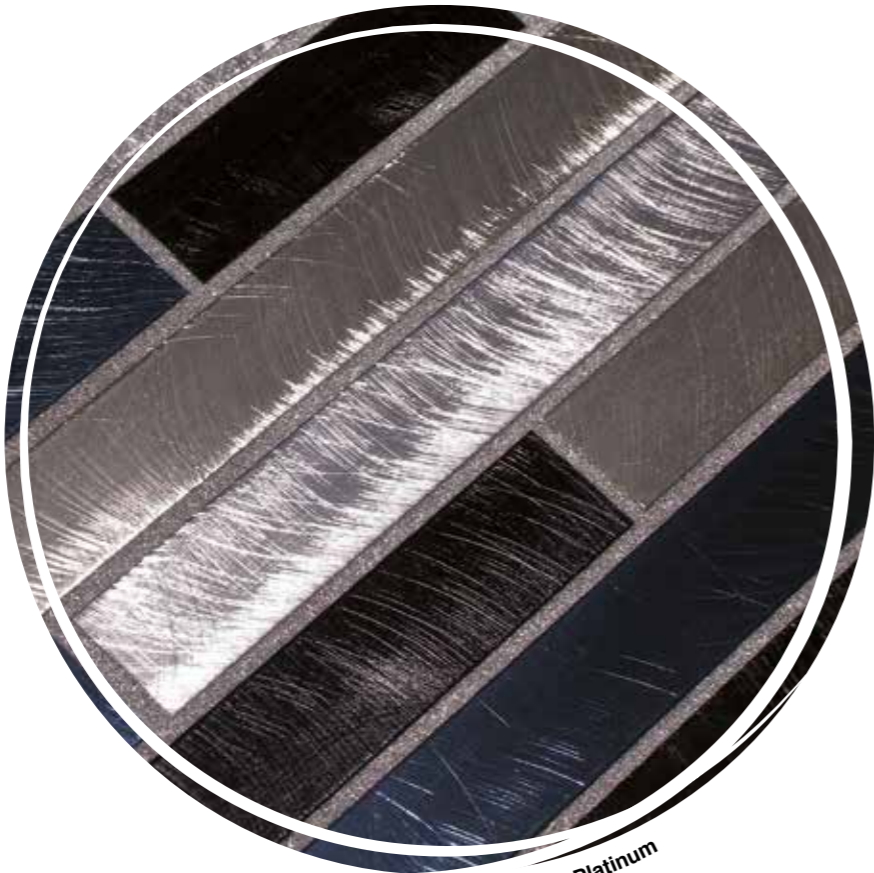
Copper



Rusty



Bronze



Metallic Platinum

Starlike® EVO - Finishes

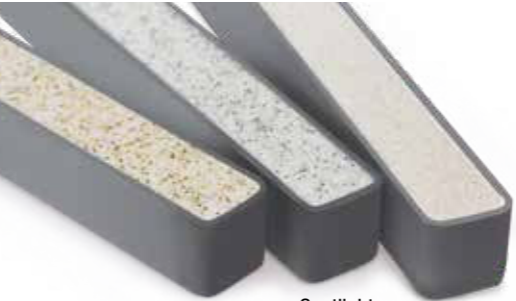
The Galaxy (pearl effect), Spotlight (silver glitter) and Gold (gold glitter) additives, when mixed as a third component with Starlike® EVO (Class and Glam Collection), give the grouting unique and exclusive effects. Available separately in pre-batched packages for 1-2.5-5 kg Starlike® EVO packages.

Galaxy:
30 g package
75 g package
150 g package

Gold:
30 g package
75 g package
150 g package

Spotlight:
30 g package
75 g package
150 g package

Night Vision:
200 g package
400 g package



Gold

Spotlight

Galaxy



Spotlight



Galaxy



Gold

Starlike® EVO - Finishes

Night Vision

The Night Vision additive mixed in as the third component to Starlike® EVO allows you to obtain grouting which, after being exposed to sunlight or artificial light, emanates an amazing fluorescent colour for several hours after dark. The Night Vision additive, for indoor-use only, illuminates the joints with its spectacular and eye-catching effect.

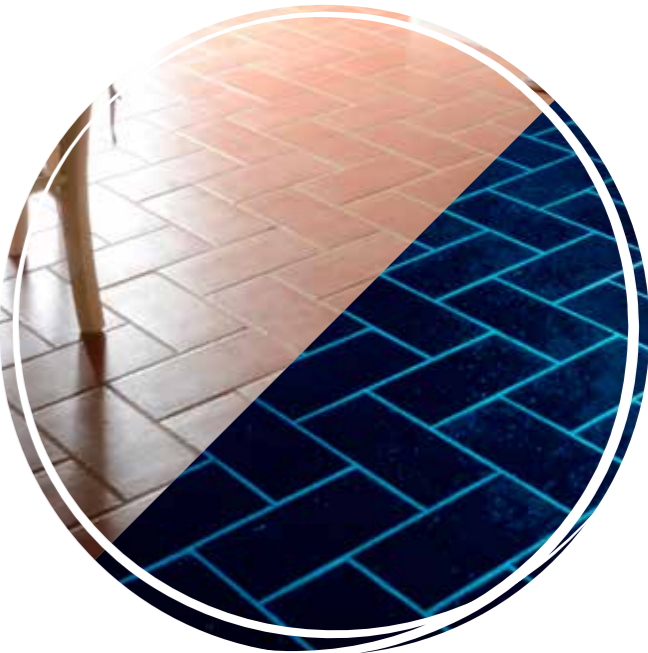
This component can be added to the following colours in the STARLIKE® EVO range: 110 Grigio Perla, 115 Grigio Seta, 120 Grigio Piombo, 205 Travertino, 208 Sabbia, 210 Greige, 215 Tortora, 225 Tabacco, 310 Azzurro Polvere, 320 Azzurro Caraibi, 330 Blu Avio, 340 Blu Denim, 350 Blu Zaffiro, 410 Verde Smeraldo, 420 Verde Prato, 430 Verde Pino, 500 Rosa Cipria, 530 Viola Ametista, 600 Giallo Vaniglia.



Night Vision



Night Vision



Starlike® Crystal EVO

Two-component acid-resistant translucent epoxy grout for grouting clear and artistic vitreous mosaics with joints up to 3 mm wide. Patent pending. For interiors and exteriors. Suitable for underfloor heating. Product with very low volatile organic compound emission rate.

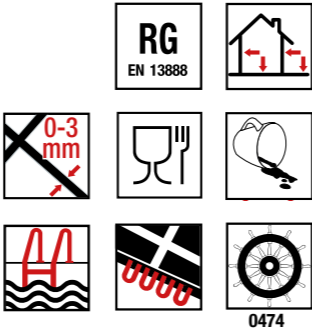
ADVANTAGES

- The catalyst (part B) is only labelled as an irritant
- Bacteriostatic product which prevents the spread of fungi and moulds
- High chemical and mechanical resistance
- Approved for use on ships as a product with low flame-spread
- The particular fineness of the glass micro spheres makes it possible to obtain extremely smooth and compact finishes

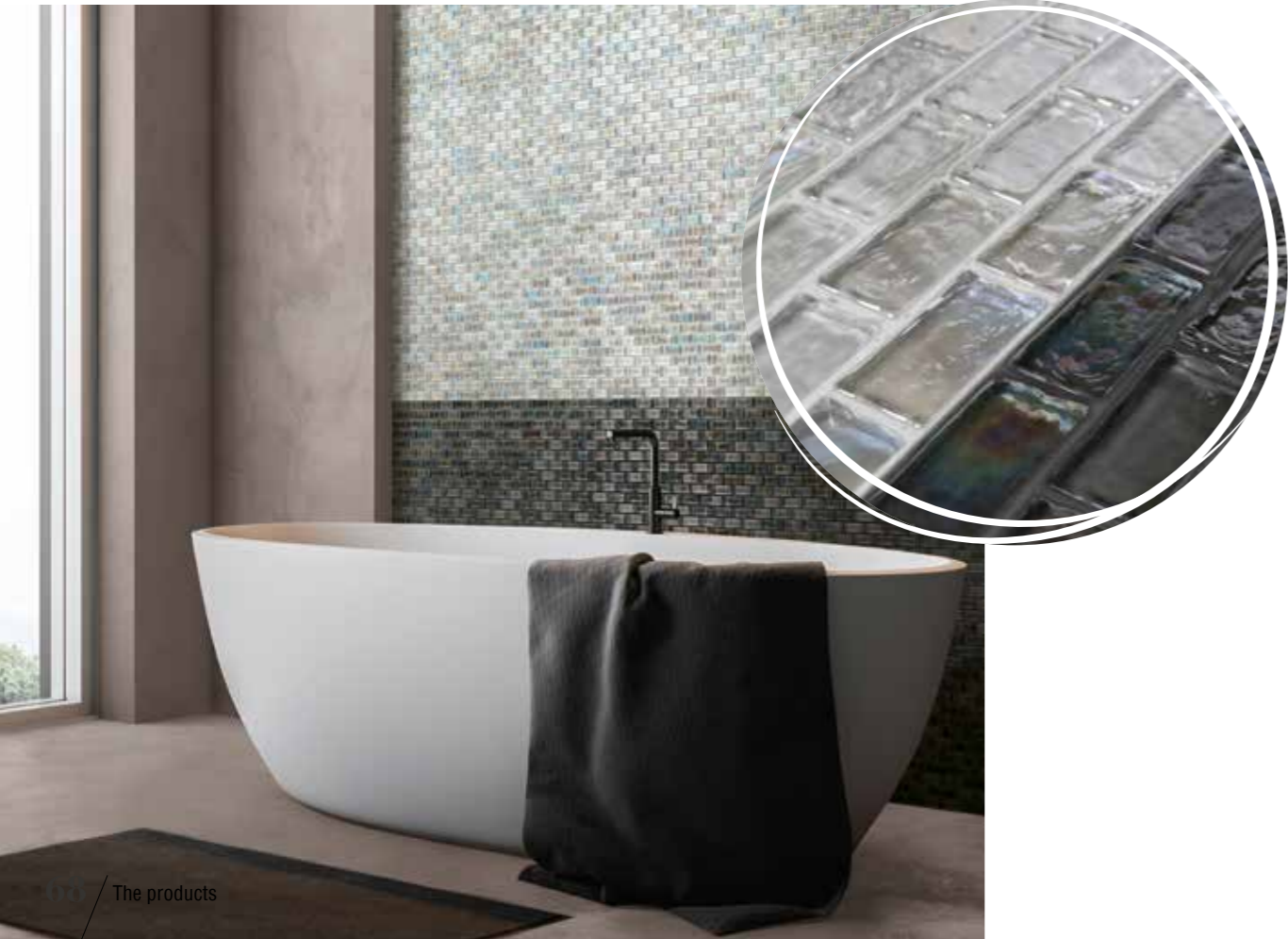
TECHNICAL FEATURES

Colour: Translucent
Mix ratio:
Component A: 94 parts by weight
Component B: 6 parts by weight
Consistency of mix: thixotropic paste
Pot life:
Approx. 60 minutes
Temperatures for application:
Permitted: from +10°C to +30°C
Recommended: from +18°C to +23°C

Light foot traffic: 24 hours
Ready for use:
5 days - Swimming pools 7 days
Joint width: from 0 to 3 mm
Shelf life:
24 months in original packaging in a dry place, protect against frost.
Packaging:
1-2.5-5 kg buckets



700 Crystal



Starlike® ColorCrystal EVO

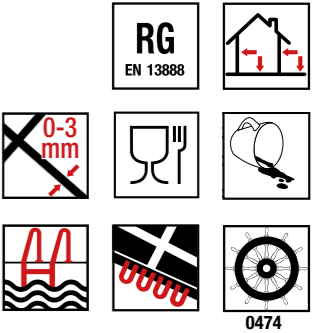
Two-component acid-resistant coloured translucent epoxy grout for grouting clear and artistic vitreous mosaics with joints up to 3 mm wide. Patent pending. For interiors and exteriors. Suitable for underfloor heating. Product with very low volatile organic compound emission rate.

ADVANTAGES

- The catalyst (part B) is only labelled as an irritant
- Bacteriostatic product which prevents the spread of fungi and moulds
- High chemical and mechanical resistance
- Approved for use on ships as a product with low flame-spread
- The particular fineness of the glass micro spheres makes it possible to obtain extremely smooth and compact finishes

TECHNICAL FEATURES

Mix ratio:
Component A: 94 parts by weight
Component B: 6 parts by weight
Consistency of mix: thixotropic paste
Pot life: Approx. 60 minutes
Temperatures for application:
Permitted: from +10°C to +30°C
Recommended: from +18°C to +23°C
Light foot traffic: 24 hours
Ready for use:
5 days - Swimming pools 7 days
Joint width: from 0 to 3 mm
Shelf life:
24 months in original packaging in a dry place, protect against frost.
Packaging: 2.5 kg buckets



800 Grigio Oslo



825 Beige Havana



810 Verde Capri



830 Rosa Kyoto



820 Azzurro Taormina

STARLIKE® CRYSTAL EVO / STARLIKE® COLORCRYSTAL EVO - Consumption as grout (mosaics)

Consumption as grout kg/m²					
Width	Width	Thickness	Joints		
A (mm)	B (mm)	C (mm)	1	2	3
10	10	4	1.24	2.48	3.72
15	15	4	0.83	1.65	2.48
15	15	6	1.24	2.48	3.72
15	15	8	1.65	3.31	4.96
15	15	10	2.07	4.13	6.2
20	20	4	0.62	1.24	1.86
20	20	6	0.93	1.86	2.79
20	20	8	1.24	2.48	3.72
23	23	4	0.54	1.08	1.62
23	23	6	0.81	1.62	2.43
23	23	8	1.08	2.16	3.23

Mosaici artistici		4 mm	0.9
		6 mm	1.35
		8 mm	1.8
Artistic mosaics			
Mosaïques artistiques			
Künstlerische Mosaiken			
Mosaicos artísticos			
		10 mm	2.25

Starlike® Decor

Epoxy decorative finish for interior walls.

ADVANTAGES

Superficial chromatic effect similar to grouting with Starlike® EVO epoxy mortar. It is, therefore, possible to create colour combinations between surfaces made of ceramic and porcelain tiles or glass mosaics grouted with Starlike® EVO and the finishes of surrounding walls decorated with Starlike® Decor. By using different application methods for Starlike® décor, it is possible to give surfaces exclusive, unusual and customisable chromatic and decorative effects. By overlapping the different colour shades in subsequent applications, infinite colour combinations can be achieved. The application of Starlike® Decor is fast and easy. Using suitable equipment, it is possible to quickly obtain highly prestigious aesthetic finishes. Since this is a low thickness finish, consumption is reduced and therefore also the cost of the operation. It is possible to decorate vertical surfaces with Starlike®.

TECHNICAL FEATURES

Colour: Transparent
Shelf life: 24 months in original packaging in a dry place. Protect against frost.
Packaging: Pre-batched 50 and 125 g jars for 1-2.5 kg Starlike® EVO buckets.



StenDecor

Stencil for decoration of walls and furniture accessories.

ADVANTAGES

StenDecor is available in six collections, each with a border (size 42x15 cm) and three 1 mm thick individual designs (21x15 cm), and three 0.20 mm thick individual designs (21x15 cm). Subjects: Cups, Pots and Fruit for kitchens, Shells and Leaves for bathrooms or living areas. Hangers for bedroom. The Animal collection for children's bedrooms, on the other hand, consists of 4 individual designs in two sizes (21x15 cm and 29.7x21 cm) only in 1 mm thickness.

The StenDecor sheets are made with two different special plastic materials which are resilient and resistant, washable in water and reusable over and over again whilst remaining perfectly flat.



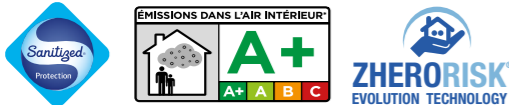
TECHNICAL FEATURES

Appearance: Clear plastic
Shelf life: unlimited in the original packaging in a dry place.
Packaging: cardboard bag (each bag contains one collection)

see Special products page 106

Hydrolux EVO

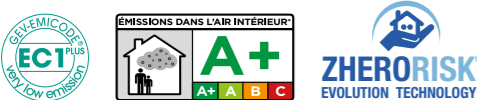
Two-component clear glossy, satin, and matt protective finish. suitable for overlaying and underfloor heating. For interiors. Product with very low volatile organic compound emission rate. Surface protection against the spread of bacteria.



see Special products page 106

Multifondo EVO

Two-component epoxy skim coat. Suitable for overlaying and underfloor heating. For interiors. Product with very low volatile organic compound emission rate.



Defender EVO

NEW

Additive for Starlike®EVO for protection of grout against external agents.

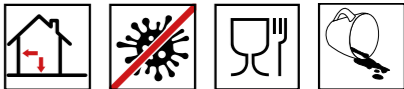
ADVANTAGES

The main advantages of Starlike® EVO + Defender EVO are:

- Excellent protection against weathering.
- Surface protection to avoid the spread of bacteria, able to eliminate 99.9% of bacteria after 24 hours as per standard ISO 22196, and 98.4% of viral loads after 2 hours of contact as per standard ISO 21702.

TECHNICAL FEATURES

Colour: White
Mix ratio:
1 package (50 g) of Defender EVO:
1 x 2.5 kg package of Starlike® EVO
2 packages (100 g) of Defender EVO:
1 package (5 kg) of Starlike EVO
Mix consistency: Thixotropic paste
Pot life: Approx. 60 minutes
Application: Grout rubber float
Application temperatures allowed: From +10°C to +30°C
Application temperatures recommended: from +18°C to +23°C
Light foot traffic: 24 hours
Ready for use: 7 days
Temperature of use: From -20°C to +100°C
Consumption: Refer to the product calculator available at www.litokol.it
Shelf life: 24 months in original packaging in a dry place.
Protect against frost.
Packaging: 50 g package.



The Starlike® EVO + Defender EVO system is guaranteed to reduce the bacterial load by 99.9% as declared by the UNIMORE certificate.



RESULT

The sample showed clear antibacterial properties, reducing the bacterial load by up to 99.9%, as indicated in test report No. 2705B/20 of 27/05/2020; this classifies the product analysed as perfectly compatible with the functional needs of environments with high hygienic requirements.

The Starlike® EVO + Defender EVO system is guaranteed to reduce the viral load by 99.4%, as declared by the certificate issued by the Department of Pharmacy and Biotechnology of the University of Bologna at the Microbiology laboratory - Sant'Orsola Hospital.



RESULT

After 1 hour's contact with the samples under examination, a lower residual infectivity of the virus was observed both in the ability to initiate a replication cycle (Log 2 hpi) and to complete it (Log 72 hpi). In particular, a reduction of 99.4% of the viral load was observed after a replication cycle of 72h for the Starlike® EVO + Defender EVO sample compared to the control, while no significant difference was noted in the cell viability compared to the control sample.

RESULT

The residual infectivity of a virus suspension of SARS-CoV2 was evaluated following contact with the samples under examination over a period of 2 and 6 hours. No significant morphological changes of the cells are noted due to cytotoxicity of the materials under examination. For the Starlike® EVO + Defender EVO series of samples, a 98.34% reduction in infectivity is observed after 2 hours of contact, which remains stable when the incubation time is extended.

FillGood EVO

Water-based polyurethane single-component grout, ready for use, stain-proof, for compact and flexible joints with uniform and long-lasting colours. Exempt from hazard classification. Ideal for underfloor heating and floors subject to vibration and deformation.

ADVANTAGES

- Reusable - Once grouting is complete, any leftover material, if stored in the original closed packaging at temperatures between +5°C and +35°C, can be reused even after months, thus avoiding wastage.
- Ready to use
- No preparation is needed and it prevents the release of dust into the environment, as normally occurs with cementitious products
- FillGood EVO does not contain solvents, irritants or corrosive substances and does not need to be labelled like normal cementitious or epoxy products
- Product not subject to restrictions for road, sea, air and rail transport
- Stain-proof
- Stable and consistent colouring on all types of tiles with exclusive chromatic effects
- Extremely easy application and cleaning, even compared to normal cementitious grouts
- Elastic
- The products are coloured by the sintered quartz micro spheres, which are surface-coloured, thus avoiding the release of pigments on the surface of the ceramics or mosaics, making cleaning easier and faster
- The particular fineness of the sintered quartz micro spheres contained in the product makes it possible to obtain extremely smooth and compact finishes
- Special water-repellent additives incorporated into the product drastically reduce the surface absorption of the grouts, making them water-repellent with “drop effect”
- The product does not contain cement, thus avoiding the formation of efflorescence, typical of cementitious products



TECHNICAL FEATURES

Waiting time for grouting: 24 hours

Temperatures for application:

From +10°C to +30°C

Light foot traffic: 24 hours

Ready for use: 7 days

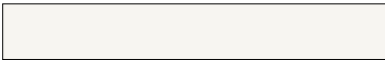
Joint width: From 1 to 6 mm

Shelf life:

24 months in original packaging

in dry place. Protect against frost.

Packaging: 5 kg buckets



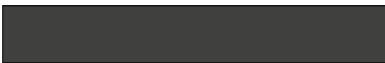
100 Bianco Assoluto



110 Grigio Perla



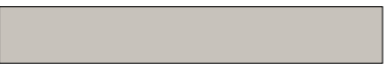
125 Grigio Cemento



140 Nero Grafite



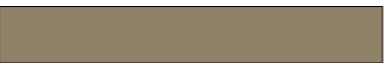
205 Travertino



210 Greige



225 Tabacco



230 Cacao

Finishes

The Spotlight and Gold additives, if mixed with FillGood EVO, give the grouting unique and exclusive effects. These additives are available separately, in pre-dosed containers for the 5 kg bucket of FillGood EVO.



+



Spotlight



Gold

see Grout for joints page 67

StyleGrout

NEW



Just like other Litokol products, StyleGrout is eligible for LEED credits thanks to the use of selected raw materials, its **end-of-life recyclability** as an aggregate and **EC1plus GEV-Emicode** and **A+** certification (French regulations) for products with a very low volatile organic compound emission rate.

Cleaning is extremely fast, especially in the Tech version: while traditional grouts normally require a waiting time of 20 minutes or more before cleaning, the **special aluminous additives of StyleGrout Tech** help to slightly speed up the setting process.



The installer can immediately proceed with cleaning without running the risk of emptying the freshly filled joints. This setting method prevents water-soluble salts from rising to the surface.

Stylegrout is available in 20 natural, simple, refined shades which allow the joints to visibly blend with the ceramic surfaces, as required for contemporary aesthetic standards.

cold tones

warm tones



White 1



White 2



Silver 1



Silver 2



Silver 3



Black 1



Black 2



Grey 1



Grey 2



Grey 3



Ivory 1



Ivory 2



Ivory 3



Beige 1



Beige 2



Beige 3



Beige 4



Brown 1



Brown 2



Brown 3

NEW

StyleGrout Tech

Flexible, multi-purpose cementitious grout for the grouting of joints of up to 20 mm on ceramic tiles, porcelain stoneware, slabs, mosaics or natural stone. Water-repellent and anti-efflorescence with high colour-fast properties, keeps the joint full and even. For interiors and exteriors. Product with very low volatile organic compound (VOC) emission rate.

ADVANTAGES

- Complies with the requirements of class CG2WA according to EN 13888 and ISO 13007-3
- Plastic and fluid thixotropic mix
- Suitable for the grouting of materials installed on heating screeds
- Full, smooth and compact joint
- Short waiting times and easy cleaning
- Prevents the formation of efflorescence
- Stable and consistent colours
- Quickly develops high mechanical strength, setting to light foot traffic in just 4 hours
- Resistant to mould
- Ready for use: 24 hours
- Compensated shrinkage.
- Maintains excellent workability over time, without any bothersome thickening
- Highly resistant to abrasion
- Water-repellent

TECHNICAL FEATURES

Appearance: Powder
Mix ratio:
Water = 26-28%
(about 0.8 litres of water per 3 kg bag)
Mix consistency:
Creamy thixotropic mortar
Mix curing time:
3 minutes
Pot life:
Approx. 50 minutes
Joint width:
From 0 to 20 mm
Application:
Grout rubber float
Application temperatures allowed:
From +5°C to +35°C
Waiting time for cleaning:
Approx. 20 minutes
Light foot traffic: 6 hours
Ready for use:
24 hours - Swimming pools 7 days
Temperature of use:
From -30°C to +80°C
Shelf life:
3 kg bag, 36 months in original packaging in a dry place. Protect against frost.
Packaging: 3 kg bags



C2G
WA
EN 13888

ISO
13007-3

Available in 20 shades (see page 75)

NEW

StyleGrout 0-8

High-performance, cementitious grout for the grouting of joints from 0 to 8 mm on ceramic tiles, porcelain stoneware, mosaics or natural stone. Ideal for smooth and compact grouting. For interiors and exteriors. Product with very low volatile organic compound emission rate.

ADVANTAGES

- Complies with the requirements of class CG2WA according to EN 13888 and ISO 13007-3
- Plastic and fluid thixotropic mix
- Suitable for the grouting of materials installed on heating screeds
- Full, smooth and compact joint
- Short waiting times and easy cleaning
- Maintains excellent workability over time, without any bothersome thickening
- Stable and consistent colours
- Resistant to mould
- Water-repellent
- Highly resistant to abrasion

TECHNICAL FEATURES

Appearance: Powder
Mix ratio: Water = 28-30% (about 0.9 litres of water per 3 kg bag) Water = 28-30% (5.6 - 6 litres of water per 20 kg bag)
Mix consistency: Creamy thixotropic mortar
Mix curing time: 3 minutes
Pot life: Approx. 40 minutes
Joint width: From 0 to 8 mm
Application: Grout rubber float
Application temperatures allowed:
From +5°C to +35°C
Waiting time for cleaning:
Approx. 20 minutes

Light foot traffic: 24 hours
Ready for use: 7 days
Temperature of use:
From -30°C to +80°C
Shelf life:
3 kg bag, 24 months in original packaging in a dry place.
20 kg bag - 12 months in original packaging in a dry place. Protect against frost.
Package: 3 kg bags and 20 kg bags



Available in 20 shades (see page 75)

C2G
WA
EN 13888

ISO
13007-3

StyleGrout 3-20

Cementitious grout with high mechanical performance for grouting joints from 3 to 20 mm wide between ceramic and porcelain, porcelain stoneware tiles, mosaics and natural stones. High resistance to abrasion and low water absorption. Suitable for underfloor heating. For interiors and exteriors. Product with very low volatile organic compound (VOC) emission rate.

ADVANTAGES

- Plastic and fluid thixotropic mix
- Suitable for the grouting of materials installed on heating screeds
- Highly resistant to abrasion
- Short waiting times and easy cleaning
- Maintains excellent workability over time, without any bothersome thickening

TECHNICAL FEATURES

Appearance: Powder
Mix ratio: Water = 18-20% 0.6 litres of water per 3 kg bag) Water = 18-20% (3.6 - 4 litres of water per 20 kg bag)
Mix consistency:
Creamy thixotropic mortar
Mix curing time: 3 minutes
Pot life: Approx. 90 minutes
Joint width: From 3 to 20 mm
Application: Grout rubber float
Application temperatures allowed:
From +5°C to +35°C
Waiting time for cleaning:
Approx. 20 minutes
Light foot traffic: 24 hours

Ready for use: 7 days
Temperature of use:
From -30°C to +80°C
Shelf life:
3 kg bag, 24 months in original packaging in a dry place.
20 kg bag - 12 months in original packaging in a dry place. Protect against frost.
Packaging:
3 kg bags and 20 kg bags



Available in 4 shades: Silver 1, Silver 3, Beige 1 and Black 1 (see page 75)

C2G
WA
EN 13888

ISO
13007-3

Ottoseal S100

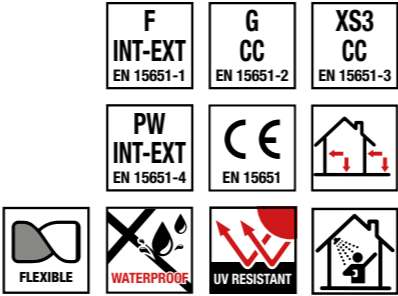
Single component, acetic acid cross-linking silicone sealant. For interiors and exteriors. Excellent resistance to weathering, ageing and UV rays. Product with very low volatile organic compound emission rate.

ADVANTAGES

- Flexible
- Waterproof
- Excellent resistance to weathering, ageing and UV rays
- Resistant to mould and bacteria
- Exceptionally smoothable surface
- Excellent adhesion without primer on all typical industrial and building materials

TECHNICAL FEATURES

Polymerisation: Acetic acid cross-linking
Mix consistency: Thixotropic paste
Film-forming time: Approx. 20 minutes
Setting in 24 hours: 2-3 mm
Application temperatures allowed: From +5°C to +35°C
Recommended application temperature: From +15°C to +25°C
Temperature of use: From -40°C to +180°C
Light foot traffic: 24 hours
Ready for use: 5 days
Shelf life: 18 months in original packaging away from sources of heat and direct sunlight. Protect against frost.
Packaging: tube 300 ml



Ottoseal S105

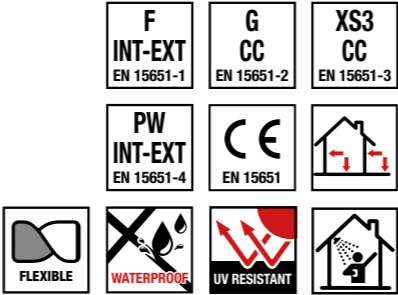
Single component, acetic acid cross-linking silicone sealant. For interiors and exteriors. Excellent resistance to weathering, ageing and UV rays. Product with very low volatile organic compound emission rate.

ADVANTAGES

- Flexible
- Waterproof
- Excellent resistance to weathering, ageing and UV rays
- Resistant to mould and bacteria
- Exceptionally smoothable surface
- Excellent adhesion without primer on all typical industrial and building materials

TECHNICAL FEATURES

Polymerisation: Acetic acid cross-linking
Mix consistency: Thixotropic paste
Film-forming time: Approx. 15 minutes
Setting in 24 hours: 2-3 mm
Application temperatures allowed: From +5°C to +35°C
Recommended application temperature: From +15°C to +25°C
Temperature of use: From -40°C to +180°C
Light foot traffic: 24 hours
Ready for use: 5 days
Shelf life: 15 months in original packaging away from sources of heat and direct sunlight. Protect against frost. Protect against frost.
Packaging: tube 310 ml



STARLIKE® EVO

Class

	S105 C01	100 Bianco Assoluto
	S105 C116	102 Bianco Ghiaccio
	S105 C71	105 Bianco Titanio
	S105 C43	110 Grigio Perla
	S100 C1170	115 Grigio Seta
	S105 C02	120 Grigio Piombo
	S105 C1168	125 Grigio Cemento
	S100 C808	130 Grigio Ardesia
	S100 C5176	140 Nero Grafite
	S105 C04	145 Nero Carbonio

Class

	S100 C51	200 Avorio
	S105 C84	202 Naturale
	S100 C103	205 Travertino
	S100 C55	208 Sabbia
	S105 C77	210 Greige
	S105 C2044	215 Tortora
	S100 C6778	225 Tabacco
	S100 C6777	230 Cacao
	S100 C6776	232 Cuoio
	S100 C21	235 Caffè

Glam

	S100 C753	300 Azzurro Pastello
	S105 FN2674	310 Azzurro Polvere
	S105 FN2682	320 Azzurro Caraibi
	S105 FN2681	330 Blu Avio
	S100 C25	340 Blu Denim
	S105 FN2678	350 Blu Zaffiro
	S100 C91	400 Verde Salvia
	S105 FN2680	410 Verde Smeraldo
	S105 FN2679	420 Verde Prato
	S100 C6854	430 Verde Pino
	S100 C74	500 Rosa Cipria
	S105 FN2673	530 Viola Ametista
	S100 C35	550 Rosso Oriente
	S100 C2288	580 Rosso Mattone
	S105 FN2672	600 Giallo Vaniglia

STARLIKE® EVO

METALLIC COLLECTION

	S100 C14	Platinum
	S100 C19	Shining Gold
	S100 C15	Bronze
	S105 C05	Copper
	S100 C2288	Rusty

STARLIKE® EVO

CRYSTAL EVO

	S105 C00	Crystal
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StyleGrout

StyleGrout Tech | StyleGrout 0-8 | StyleGrout 3-20

COLD TONES

	White 1	S105 C01
	White 2	S105 C116
	Silver 1	S105 C71
	Silver 2	S105 C43
	Silver 3	S105 C02
	Black 1	S100 C808
	Black 2	S100 C5176
	Grey 1	S100 C1010
	Grey 2	S105 C1168
	Grey 3	S100 C6776

WARM TONES

	Ivory 1	S100 C51
	Ivory 2	S100 C103
	Ivory 3	S100 C55
	Beige 1	S105 C1106
	Beige 2	S105 C10
	Beige 3	S100 C6778
	Beige 4	S100 C82
	Brown 1	S100 C1082
	Brown 2	S100 C6777
	Brown 3	S100 C21

Ottoseal S70

Single component neutral cross-linking silicone sealant. For interiors and exteriors and swimming pools. Ideal for use on façades. Suitable for marble, granite, and natural stone. Product with very low volatile organic compound emission rate.

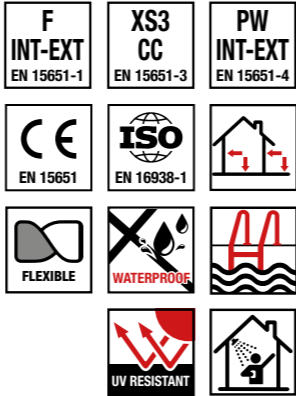
ADVANTAGES

- Flexible
- Waterproof
- Excellent resistance to weathering
- Excellent Resistance to UV rays
- Resistant to mould and bacteria
- Exceptionally smoothable surface
- Also available in “structured” colours with a grainy surface similar to stone

TECHNICAL FEATURES

Polymerisation: Neutral cross-linking
Mix consistency: Thixotropic paste
Film-forming time: Approx. 10 minutes
Setting in 24 hours: 2-3 mm
Light foot traffic: 24 hours
Ready for use: 5 days
Shelf life: 15 months in original packaging away from sources of heat and direct sunlight. Protect against frost.
Packaging: tube 310 ml

COLOURS



Ottoseal S34

Single component neutral cross-linking silicone sealant. For interiors and exteriors. Ideal for industrial use. Certified according to ISEGA for contact with foodstuffs. Product with ultra-low emission of volatile organic substances.

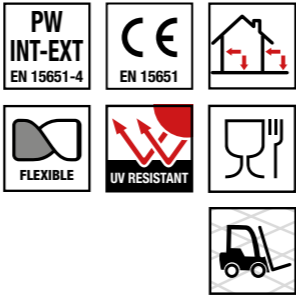
ADVANTAGES

- Non-corrosive
- Exceptional resistance to temperatures up to + 265 °C
- Extremely high mechanical strength, notch and pull-off strength
- Flexible
- Suitable for floors with vehicle traffic (e.g. forklifts) and resistant to mechanical cleaning with pressure washers
- Ready to use
- Excellent resistance to weathering, ageing and UV rays

TECHNICAL FEATURES

Polymerisation: Neutral cross-linking
Mix consistency: Thixotropic paste
Film-forming time: Approx. 10 minutes
Setting in 24 hours: 2-3 mm
Application temperatures allowed: From +5°C to +35°C
Recommended application temperature: From +15°C to +25°C
Temperature of use: From -40°C to +265°C
Light foot traffic: 24 hours
Ready for use: 2 days
Shelf life: 15 months in original packaging away from sources of heat and direct sunlight. Protect against frost.
Packaging: tube 310 ml

COLOURS



Ottoseal S117

Single component neutral cross-linking sealant. For interiors and exteriors. Product with very low volatile organic compound emission rate.

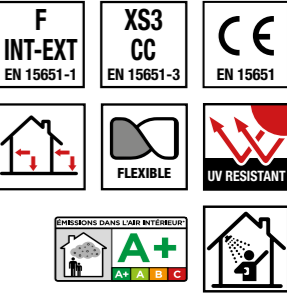
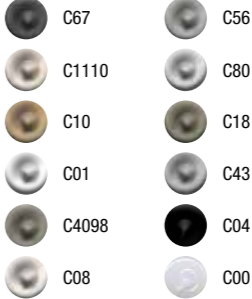
ADVANTAGES

- Excellent resistance to weathering, ageing and UV rays
- Resistant to mould and bacteria
- Suitable for façades
- Flexible
- Ready to use
- Suitable for natural stone

TECHNICAL FEATURES

Polymerisation: Neutral cross-linking
Mix consistency: Thixotropic paste
Film-forming time: Approx. 20 minutes
Setting in 24 hours: 2-3 mm
Light foot traffic: 24 hours
Ready for use: 5 days
Shelf life: 12 months in original packaging away from sources of heat and direct sunlight. Protect against frost.
Packaging: tube 310 ml

COLOURS



Ottoseal S125

Single component alcohol sealant. For interiors and exteriors. Product with very low volatile organic compound emission rate.

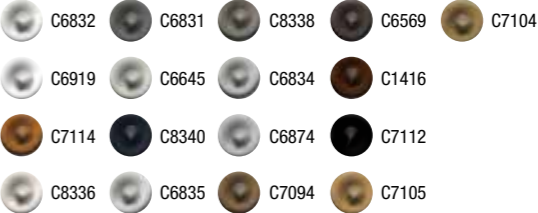
ADVANTAGES

- Excellent resistance to weathering, ageing and UV rays
- Resistant to mould and bacteria
- Ready to use
- Flexible
- Non-corrosive

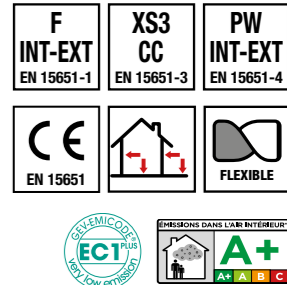
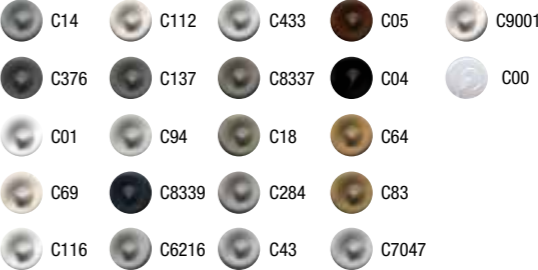
TECHNICAL FEATURES

Polymerisation: Neutral cross-linking
Mix consistency: Thixotropic paste
Film-forming time: Approx. 10 minutes
Setting in 24 hours: 2-3 mm
Light foot traffic: 24 hours
Ready for use: 5 days
Shelf life: 12 months in original packaging away from sources of heat and direct sunlight. Protect against frost.
Packaging: tube 310 ml

MATT COLOURS



GLOSSY COLOURS



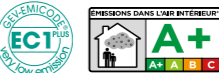
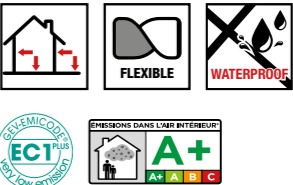
Ottocoll M500

Single component adhesive grout made with STP hybrid polymers. For interiors and exteriors. Over-paintable. Product with very low volatile organic compound emission rate.



Ottocoll M501

Transparent hybrid adhesive grout. For interiors and exteriors. Product with very low volatile organic compound emission rate.



Otto Primer 1105

Universal primer for absorbent surfaces

TECHNICAL FEATURES

Consumption: 100-300 g/m²
Shelf life: 12 months in original packaging stored in a cool, dry place. Protect against frost.
Packaging: bottle 100 ml



Otto Primer 1216

Primer for natural stones and metals

TECHNICAL FEATURES

Consumption: 30-50 g/m²
Shelf life: 12 months in original packaging in cool, dry place. Protect against frost.
Packaging: bottle 100 ml



Otto Primer 1217

Silicone primer for plastics

TECHNICAL FEATURES

Consumption: about 10-20 g/m²
Shelf life: 12 months in original packaging in cool, dry place. Protect against frost.
Packaging: bottle 100 ml



Otto Primer 1218

Silicone primer for continuously wet conditions.

TECHNICAL FEATURES

Consumption: 80-200 g/m²
Shelf life: 12 months in original packaging in cool, dry place. Protect against frost.
Packaging: bottle 100 ml



Otto Cleanprimer 1101

Product to improve adhesion

TECHNICAL FEATURES

Consumption: 30-50 g/m²
Shelf life: 12 months in original packaging in cool, dry place. Protect against frost.
Packaging: bottle 100 ml



Otto Cleaner T

Universal cleaner

TECHNICAL FEATURES

Consumption: 30-50 g/m²
Shelf life: 72 months in original packaging stored in a cool, dry place. Protect against frost.
Packaging: bottle 100 ml



Otto Agente Lisciante X-GL

Smoothing agent.

TECHNICAL FEATURES

Consumption: 50 g/m²
Shelf life: 12 months in original packaging in cool, dry place. Protect against frost.
Packaging: bottle 250 ml



Otto Agente Lisciante X-GLM

Smoothing agent. Suitable for marble, granite, and natural stone.

TECHNICAL FEATURES

Consumption: 50 g/m²
Shelf life: 12 months in original packaging in cool, dry place. Protect against frost.
Packaging: bottle 250 ml



Otto Fugenfux

Smoothing tools.



Litogap

Closed-cell expanded polyethylene tubing for expansion joints.

TECHNICAL FEATURES

Colour: Grey
Temperature of use: From -40°C to +80°C
Water absorption: None
Packaging:
Ø 6 mm – 100 m rolls
Ø 10 mm – 100 m rolls
Ø 15 mm – 100 m rolls

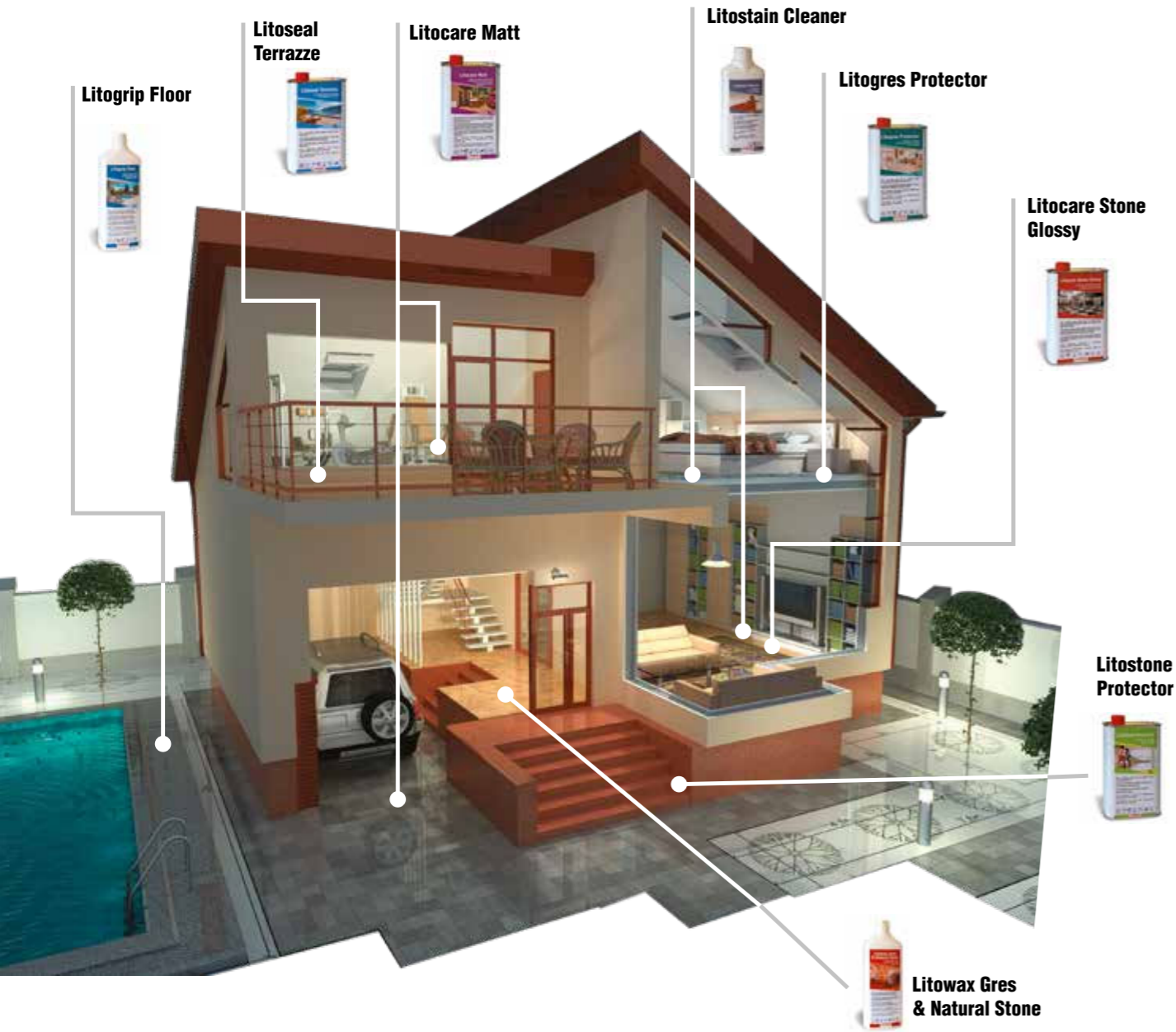


Ø 20 mm – 50 m rolls
Ø 25 mm – 50 m rolls
Ø 30 mm – 50 m rolls

see Special products page 107

Choice of silicone sealants and Otto-Chemie complementary products

INTENDED USE		Cleaner - Otto Cleaner T	Primer				Grouts					Smoothing agent	
			Otto Primer 1216*	Otto Primer 1105 (for absorbent substrates)	Otto Cleanprimer 1101 (for acrylic bathtubs)	Otto Primer 1218	Otoseal S100/S105	Otoseal S70	Otoseal S34	Otoseal S117	Otoseal S125	X-GLM	X-GL
Indoor areas	Elastic expansion joints between ceramic and porcelain tiles in residential interior floors and covering.	✓					✓	✓		✓	✓	✓	✓
	Elastic expansion joints between natural stone in residential interior floors and covering.	✓	✓					✓		✓		✓	
	Elastic expansion joints between ceramic and porcelain tiles and natural stone in commercial floors with average traffic.	✓	✓					✓		✓		✓	
	Elastic expansion joints between ceramic and porcelain tiles in industrial interior floors with heavy traffic.	✓	✓						✓			✓	✓
	Elastic expansion joints in concrete substrate in industrial interior floors with heavy traffic.	✓		✓					✓				✓
Wet areas	Sealing of ceramic and porcelain tiles, glass mosaics and fittings in bathrooms and shower cubicles.	✓			✓		✓	✓		✓	✓	✓	✓
	Sealing of natural stone and fittings in bathrooms and showers cubicles.	✓	✓					✓		✓		✓	
	Sealing of ceramic and porcelain tiles and natural stones at tanks, swimming pools and Spa facilities also containing seawater.	✓				✓		✓				✓	
	Sealing of ceramic and porcelain tiles and glass mosaics in steam baths and hammam baths.	✓	✓				✓				✓		✓
	Sealing of natural stone in steam baths and hammam baths.	✓	✓					✓				✓	
Outdoor areas	Flexible expansion joints between ceramic tiles and natural stones on balconies, terraces and walkways on façades.	✓	✓					✓		✓		✓	
	Elastic expansion joints between ceramic and porcelain tiles on façades.	✓	✓					✓		✓		✓	✓
	Elastic expansion joints between natural stones on façades.	✓	✓					✓		✓		✓	



Detergents and surface treatments

Intended uses

Stain-proof

Apply with a brush

Non-absorbent

Dirt-resistant

Apply with a roller

Non-slip

Airless dispensing system

Wipe with a cloth

Guide to choosing product surface treatment products



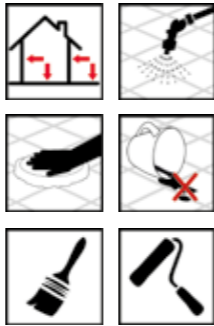
SURFACES	LITOSTONE PROTECTOR	LITOGRES PROTECTOR	LITOCARE MATT	LITOCARE STONE GLOSSY	LITOWAX GRES & NATURAL STONE	LITOGRIP FLOOR	LITOSEAL TERRAZZE
Marble (all finishes except for polished finishes) Clay Terracotta	✓		✓	✓	✓		✓
Granite (all finishes except for polished finishes)	✓		✓	✓	✓	✓	✓
Polished marble	✓		✓				✓
Polished granite	✓		✓			✓	✓
Natural stone: sandstone quartz limestone slate lava stones	✓		✓	✓	✓		✓
Recomposed stone	✓		✓				
Recomposed quartz	✓	✓	✓			✓	
Porcelain stoneware Structured porcelain stoneware Natural clinker		✓	✓		✓	✓	✓
Polished porcelain stoneware		✓	✓			✓	✓
Honed porcelain stoneware		✓	✓				✓
Enamelled ceramic Enamelled clinker		✓	✓			✓	✓
Glass mosaics		✓	✓				✓
Ceramic mosaics		✓	✓			✓	✓
Cementitious grouts	✓	✓	✓				✓
Epoxy grouts		✓	✓				

Litostone Protector

Water- and oil-repellent stain-proof impregnator for marble and granite. It offers stand-out and long-lasting protection without altering the natural colour of materials, preventing staining agents such as red wine, oil, ink, coffee etc. from penetrating the pores of the material, thus allowing spillages to be promptly removed. It can also be used as a pre-treatment before grouting. The product is suitable for use on all types of natural stones with medium-low absorbency such as marble and granite.

- ADVANTAGES**
- Suitable for interior and exterior applications.
 - Does not alter the colour of the surfaces on which it is applied
 - Resistant to UV rays and weathering
 - High penetrating capacity
 - Does not alter the breathability of the surfaces on which it is applied

TECHNICAL FEATURES
Appearance: Clear liquid
Application temperatures allowed: From +5°C to +35°C
Treatment time: Approx. 10 minutes
Consumption: 15-20 m²/l
Shelf life: 36 months in original packaging, away from sources of heat and direct sunlight.
Packaging: 1 litre metal bottles

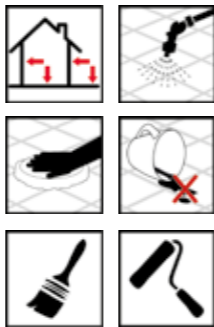


Litogres Protector

Water- and oil-repellent stain-proof impregnator for ceramic and porcelain tiles and porcelain stoneware. It offers stand-out and long-lasting protection without altering the natural colour of materials, preventing staining agents such as red wine, oil, ink, coffee etc. from penetrating the pores of the material, thus allowing spillages to be promptly removed. It can also be used as a pre-treatment before grouting. The product is suited to compact, low absorbency surfaces that require protection inside their pores, normally created by surface machining treatments such as polishing or lapping.

- ADVANTAGES**
- Suitable for interior and exterior applications.
 - Does not alter the colour of the surfaces on which it is applied
 - Facilitates routine maintenance, preventing dirt and stains from penetrating the surfaces
 - Resistant to UV rays and weathering
 - Suitable for pre-grouting treatment of ceramic and porcelain tiles and porcelain stoneware

TECHNICAL FEATURES
Appearance: Clear liquid
Application temperatures allowed: From +5°C to +35°C
Treatment time: Approx. 10 minutes
Consumption: 25-30 m²/l
Shelf life: 36 months in original packaging, away from sources of heat and direct sunlight.
Packaging: 1 litre metal bottles

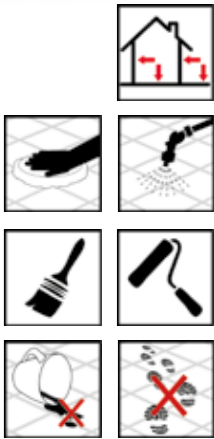


Litocare Matt

Protective treatment with matt colour enhancing effect to improve the appearance of ceramic or natural stone surfaces, and for epoxy and cementitious joints. Materials treated with Litocare Matt are protected against oil, grease, dirt, liquids, etc.. The product is UV-resistant and thus suitable for use on both interior and exterior dry surfaces. This treatment facilitates routine maintenance, reducing surface friction and inhibiting the penetration of dirt.

- ADVANTAGES**
- Suitable for interior and exterior applications.
 - Enhances the tone and colour of the surfaces on which it is applied
 - Resistant to UV rays and weathering
 - Does not create surface film
 - High penetrating capacity
 - Suitable for application in showers, saunas, sinks and fountains

TECHNICAL FEATURES
Appearance: Clear liquid
Application temperatures allowed: From +5°C to +35°C
Treatment time: 10 minutes
Consumption: 15-20 m²/l
Shelf life: 24 months in original packaging, away from sources of heat and direct sunlight.
Packaging: 1 litre metal bottles

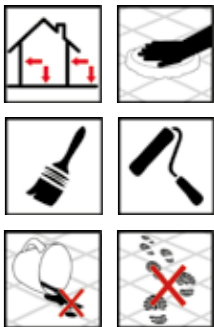


Litocare Stone Glossy

Stain-proof impregnator with semi-gloss effect for marble and granite, terracotta and absorbent materials. It creates a revitalising effect, features excellent dirt-proof and stain-proof properties and offers surfaces a semi-glossy appearance. This treatment facilitates routine maintenance, reducing surface friction and inhibiting the penetration of dirt.

- ADVANTAGES**
- Suitable for interior and exterior applications.
 - Enhances the tone and colour of the surfaces on which it is applied
 - Resistant to UV rays and weathering
 - Gives a semi-gloss finish
 - High penetrating capacity

TECHNICAL FEATURES
Appearance: Clear liquid
Application temperatures allowed: From +5°C to +35°C
Treatment time: 5 - 10 minutes
Consumption: 15-20 m²/l
Shelf life: 24 months in original packaging, away from sources of heat and direct sunlight.
Packaging: 1 litre metal bottles

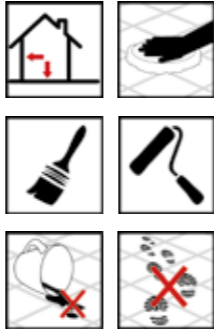


Litowax Gres & Natural Stone

Protective treatment with satin-finish effect for structured ceramics, stones and terracotta. It creates a soft, matt effect, featuring excellent dirt-proof, scratch-proof and stain-proof properties. Application facilitates routine maintenance, reducing surface friction. The product is recommended for use on all natural and non-natural materials with a surface roughness able to ensure the adhesion of the wax.

- ADVANTAGES**
- Gives a pleasant satin-finish effect to surfaces on which it is applied
 - Effective protection against dirt and stains
 - Water-based product exempt from hazard classification for transport
 - Suitable on all materials with surface roughness
 - Does not turn yellow

- TECHNICAL FEATURES**
- Appearance:** Off-white liquid
- Application temperatures allowed:**
From +5°C to +35°C
- Treatment time:** 4 hours
- Consumption:** 10-15 m²/l
- Shelf life:** 36 months in original packaging, away from sources of heat and direct sunlight.
- Packaging:** 1 litre plastic bottles



Litoseal Terrazze

Anti-infiltration water-repellent protective impregnator for terraces. The product's characteristics guarantee high waterproofing performance on surfaces to which it is applied, eliminating problems caused by the infiltration of water into small crackings, pores and joints. The product penetrates the inside of the laid surface, creating a barrier against rising humidity and salt damp, while allowing vapour permeation. It prevents the formation of mould and efflorescence, is UV-resistant and does not have a yellowing effect on the treated material.

- ADVANTAGES**
- Versatile and usable on all surfaces
 - Resistant to UV rays and weathering
 - High penetrating capacity
 - excellent water-repellent and anti-rising damp properties.

- TECHNICAL FEATURES**
- Appearance:** Clear liquid
- Application temperatures allowed:**
From +5°C to +35°C
- Treatment time:** 5 minutes
- Consumption:** 10-15 m²/l
- Shelf life:** 36 months in original packaging, away from sources of heat and direct sunlight.
- Packaging:** 1 litre metal bottles

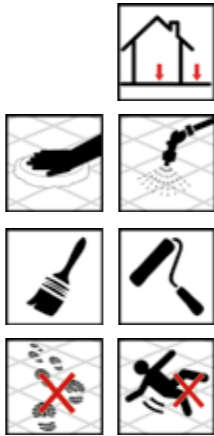


Litogrip Floor

Non-slip treatment for stoneware, granite, quartz and ceramic mosaic. It reacts with the surface, creating micro escape routes for the water, facilitating drainage and increasing surface friction.

- ADVANTAGES**
- Water-based product
 - Gives an extremely long-lasting non-slip effect
 - Does not skin over or leave residue
 - Does not require periodic maintenance

- TECHNICAL FEATURES**
- Appearance:** Amber liquid
- Application temperatures allowed:**
From +5°C to +35°C
- Treatment time:** 15 - 60 minutes
- Consumption:** 15-20 m²/l
- Shelf life:** 24 months in original packaging, away from sources of heat and direct sunlight.
- Packaging:** 1 litre plastic bottles



Litoclean

Acid descaler detergent for use on ceramic coverings.
The product produces a descaling effect similar to that of strong acids with the advantage that it doesn't release any toxic or harmful fumes.

ADVANTAGES

- Fairly non-aggressive on cementitious grouts. Does not alter the colour of joints
- It is very effective on greasy residue in completed building sites

TECHNICAL FEATURES

Appearance: White
Application temperatures allowed: From +5°C to +40°C
Treatment time: 5-10 minutes
Consumption: 5-10 m²/kg
Shelf life: 24 months in original packaging, away from sources of heat and direct sunlight.
Packaging: 1 kg buckets.



Litoclean EVO

Acid descaler detergent for use on ceramic coverings.
Efficiently removes cementitious grout residue and efflorescence. The product, formulated with inhibited acids and specific detergents, replaces traditional acids with better results in the in-depth cleaning of newly installed ceramic coverings.

ADVANTAGES

- Water-based product
- Suitable for removal of salt efflorescences
- Fairly non-aggressive on cementitious grouts. Does not alter the colour of joints
- Excellent detergent power
- Pleasant fragrance
- Exempt from hazard classification for transport

TECHNICAL FEATURES

Appearance: Light blue liquid
Application temperatures allowed: From +5°C to +35°C
Treatment time: 5 - 10 minutes
Consumption: 10 - 15 m²/l
Shelf life: 24-36 months in original packaging away from sources of heat and direct sunlight.
Packaging: 1 litre bottles



Litoscrub EVO

Concentrated neutral water-based liquid wax remover for removal of wax, resins, polymers, dirt and pre-existing treatments before overlaying. Also effective for the deep cleaning of tough dirt.

ADVANTAGES

- Excellent wax removal power
- Avoids the use of materials that are hazardous and difficult to procure, such as caustic soda
- Allows direct application with cementitious adhesives in the case of overlaid installations
- Versatile product, can be used on all surfaces
- Completely removes old wax or pre-existing treatments.
- Product not subject to restrictions for road, sea, air and rail transport
- Effective on plant efflorescence, algae and mould
- Pleasant fragrance

TECHNICAL FEATURES

Appearance: Amber liquid
Application temperatures allowed: From +5°C to +35°C
Treatment time: 5 - 10 minutes
Consumption: 10 - 15 m²/l
Shelf life: 24 months in original packaging away from sources of heat and direct sunlight. Protect against frost.
Packaging: 1 litre bottles.



Litonet EVO

Liquid detergents for the removal of epoxy grout stains and residue from all types of ceramic tiles, mosaics and natural stone. Also efficiently deep cleans tough dirt.

ADVANTAGES

- Versatile and usable on all surfaces
- Water-based product
- Non-aggressive solution, which can also be used on polished marble and honed or polished stoneware without the risk of corrosion or tarnishing
- Exempt from hazard classification for transport
- Excellent degreasing and wax removal power

TECHNICAL FEATURES

Appearance: Clear liquid
Application temperatures allowed: From +5°C to +35°C
Treatment time: 5 - 10 minutes
Consumption: 10 - 15 m²/l
Shelf life: 24 months in original packaging away from sources of heat and direct sunlight. Protect against frost.
Packaging: 1 l bottles - 5 l cans



Litonet Gel EVO

Liquid detergents for the removal of epoxy grout stains and residue from all types of ceramic tiles, mosaics and natural stone. Also efficiently deep cleans tough dirt. Characterised by a higher viscosity and particularly suited to cleaning ceramic wall coverings.

ADVANTAGES

- Versatile and usable on all surfaces
- Water-based product
- Non-aggressive solution, which can also be used on polished marble and honed or polished stoneware without the risk of corrosion or tarnishing
- Exempt from hazard classification for transport
- Excellent degreasing and wax removal power

TECHNICAL FEATURES

Appearance: Clear dense liquid
Application temperatures allowed: From +5°C to +35°C
Treatment time: 5 - 10 minutes
Consumption: 10 - 15 m²/l
Shelf life: 24 months in original packaging away from sources of heat and direct sunlight. Protect against frost.
Packaging: 0.75 l spray bottles



Litonet Pro

High viscosity liquid detergent for the removal of stains and consolidated epoxy grout residue from all types of ceramic tiles and mosaics. Ideal for the removal of graffiti, spray paints and ink. Breaks down silicone caulk residue.

ADVANTAGES

- Non-aggressive solution, which can also be used on polished marble and honed or polished stoneware without the risk of corrosion or tarnishing
- Versatile and usable on all surfaces
- Effective also on halos catalysed for some time
- The dense and viscous formula also facilitates vertical application

TECHNICAL FEATURES

Appearance: White liquid
Application temperatures allowed: From +5°C to +35°C
Treatment time: 10 - 30 minutes
Consumption: 4-6 m²/l
Shelf life: 24 months in original packaging away from sources of heat and direct sunlight. Protect against frost.
Packaging: 0.5 l bottles



FillCleaner EVO

Ecological detergent for the removal of residue left by grouting made with FillGood EVO, the single component, ready-to-use, water-based polyurethane grout.

ADVANTAGES

- Water-based product
- Excellent detergent power
- Pleasant fragrance
- Non-aggressive solution, which can also be used on polished marble and honed or polished stoneware without the risk of corrosion or tarnishing
- Exempt from hazard classification for transport

TECHNICAL FEATURES

Appearance: Clear dense liquid

Application temperatures allowed: From +5°C to +30°C

Treatment time: 5-7 minutes

Consumption: 10 - 15 m²/l

Shelf life: 24 months in original packaging away from sources of heat and direct sunlight. Protect against frost.

Packaging: 0.75 l spray bottles.



Litostain Cleaner

Stain remover for coloured stains on all materials.

ADVANTAGES

- Water-based product
- High stain removal power
- Does not alter the treated surfaces
- Versatile and usable on all surfaces

TECHNICAL FEATURES

Appearance: Clear gel

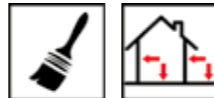
Application temperatures allowed: From +5°C to +35°C

Treatment time: From 10 to 20 minutes, up to a few hours

Consumption: Dependent on the size of the stains

Shelf life: 12 months in original packaging away from sources of heat and direct sunlight. Protect against frost.

Packaging: 0.5 litre plastic bottles



Litostrip

Cleaner gel for the removal of epoxy grout residue also effective for the deep cleaning of tough dirt.

ADVANTAGES

- Ready to use
- The thick and viscous consistency makes it easy to apply even on walls
- Effective in removing consolidated epoxy residue even after some time

TECHNICAL FEATURES

Appearance: Clear gel

Treatment time: from 10 - 20 minutes up to 8 hours

Application temperatures allowed: from +5°C to +35°C

Consumption: 3-10 m² /l

Shelf life: 24 months in original packaging away from sources of heat and direct sunlight. Protect against frost.

Packaging: 0.75 l metal bottle



Litoshine EVO

Eco-friendly neutral detergent for all surfaces. No rinsing needed.

Specifically for daily cleaning of all surfaces, especially low absorbency floors such as ceramics, porcelain stoneware, wood and resin flooring. Its wax- and solvent-free formulation does not leave a film or streaks on the floor, guaranteeing an excellent level of cleanliness and a fresh clean scent.

ADVANTAGES

- Versatile and usable on all surfaces
- Excellent detergent power
- Water-based product
- Does not leave halos or require rinsing
- Pleasant fragrance
- Exempt from hazard classification for transport

TECHNICAL FEATURES

Appearance: Clear liquid

Application temperatures allowed: From +5°C to +35°C

Consumption: 900 - 1000 m²/l

Shelf life: 36 months in original packaging away from sources of heat and direct sunlight. Protect against frost.

Packaging: 1 litre plastic bottles





Products for waterproofing



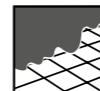
Intended uses



Resistant to UV rays



Suitable for contact with foodstuffs



Ideal for overlaying on old floors



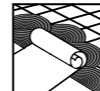
Can be painted over



Stain-proof



Ideal for balconies and terraces



Ideal for overlaying on old floors



Flexible



Resistant to contact with chemical agents



Suitable for underfloor heating



Ideal for damp indoor environments



Suitable for use in swimming pools



Suitable for areas subject to heavy traffic



Suitable for underfloor heating



Quick-setting

NEW

Aquamaster EVO

Fire-reinforced ready-to-use liquid membrane in aqueous dispersion, elastic, chlorine-resistant, for waterproofing of indoor and outdoor wet areas in class DM 02P according to uni EN 14891. Product with very low volatile organic compound emission rate.

ADVANTAGES

- Ready-to-use and reusable product.
- Does not require reinforcing mesh or fabric and sealing bands to protect the corners
- Fibre-reinforced for maximum elasticity and resistance.
- Multiple coats can be applied within just a few hours thanks to the fast drying.
- Suitable for overlaying on existing ceramic and porcelain tile floors.
- For application in indoor and outdoor areas

TECHNICAL FEATURES

Colour: Light grey

Application temperatures allowed:

From +5°C to +35°C

Consumption: 1.4 - 2.0 kg/m²

Application: Roller, brush or smooth steel trowel

Waiting time for installation: 24 hours

Shelf life:

24 months in original packaging in a dry place.

Protect against frost.

Packaging: 5-10-20 kg buckets



Hidroflex

Ready-to-use liquid membrane in aqueous dispersion, elastic, for waterproofing of indoor wet areas in class DM 01 according to uni EN 14891. Complies with standard ETAG 022 part 1 and part 2. Suitable for underfloor heating. Product with very low volatile organic compound emission rate.

ADVANTAGES

- Single component ready-to-use product that does not require any preparation
- Applicable with smooth steel trowel, roller or brush
- Reusable product. Any leftover material, if stored in the original packaging can be reused even after months, thus avoiding wastage
- The fast drying time allows the application of multiple coats just a short time apart, making it possible to complete waterproofing in one day only

TECHNICAL FEATURES

Colour: Green

Application temperatures allowed: From +5°C to +35°C

Total thickness: >1 mm

Application: Roller, brush or smooth steel trowel

Consumption: 2.3 kg/m² in two coats

Waiting time for installation: 24 hours

Shelf life: 24 months in original packaging in a dry place. Protect against frost.

Packaging: 10 kg buckets



Coverflex

Two-component cementitious mortar, elastic up to a -20°C, chlorine-resistant, applicable with roller and brush, for waterproofing of indoor wet areas, balconies, terraces, tanks and swimming pools in class CM02P according to UNI EN 14891, product with low volatile organic compound emission rate.

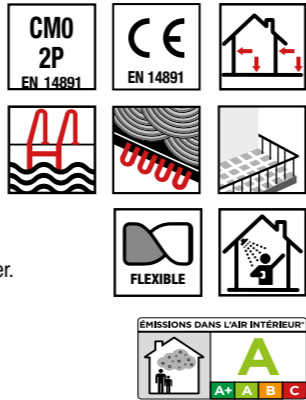
ADVANTAGES

- Very high elasticity and impermeability
- Excellent adhesion to concrete, all cementitious substrates and also smooth, compact and non-absorbent substrates such as ceramic and porcelain tiles, natural and polished stones, without the need for primer
- Allows waterproofing repairs on balconies and terraces directly over the existing ceramics without the need for demolition
- Maintains excellent workability over time, without any bothersome thickening
- Retains its flexibility even at very low temperatures (-20°C).

TECHNICAL FEATURES

Colour of the mix: Light grey
Mixing ratios:
Component A (powder): 2 parts (1 x 20 kg bag)
Component B (liquid): 1 part (1 x 10 kg canister)
Mix curing time: 5 minutes
Consistency of mix: fluid paste
Pot life: Approx. 60 minutes
Application temperatures allowed: From +5°C to

+35°C
Application: Roller, brush or smooth steel trowel
Consumption: 1.6 kg/m² per 1 mm of thickness
Waiting time between coats: 3-4 hours
Waiting time for installation: 5 days. 24 hours in good weather.
Shelf life: 12 months in original packaging in a dry place. Protect against frost.
Packaging: 20 kg bag + 10 kg tank



Elastocem

Two-component cementitious mortar, elastic up to a -20°C, chlorine-resistant, fibre-reinforced, for waterproofing of indoor wet areas, balconies, terraces, tanks and swimming pools in class CM02P according to UNI EN 14891, product with very low volatile organic compound emission rate.

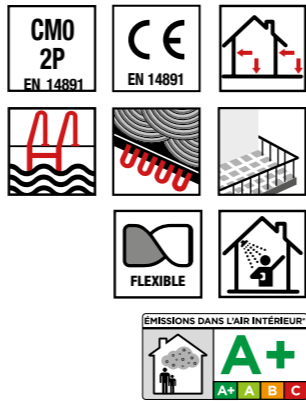
ADVANTAGES

- Very high elasticity and impermeability
- Excellent adhesion to concrete, all cementitious substrates and also smooth, compact and non-absorbent substrates such as ceramic and porcelain tiles, natural and polished stones, without the need for primer
- Allows waterproofing repairs on balconies and terraces directly over the existing ceramics
- Maintains excellent workability over time, without any bothersome thickening
- Retains its flexibility even at very low temperatures (-20°C).

TECHNICAL FEATURES

Colour of the mix: Dark grey
Mixing ratios:
Component A (powder): 3 parts (1 x 24 kg bag)
Component B (liquid): 1 part (1 x 8 kg canister)
Mix curing time: 5 minutes
Consistency of mix: fluid paste
Pot life: 60 minutes

Application temperatures allowed: From +5°C to +35°C
Thickness per coat: < 2 mm
Total thickness: 2 mm
Application: Smooth steel trowel
Consumption: 1.7 kg/m² per 1 mm of thickness
Shelf life: 12 months in original packaging in a dry place. Protect against frost.
Packaging: 24 kg bag + 8 kg tank



Litomesh

Anti-alkaline, fibreglass reinforcement mesh. For interiors and exteriors.

ADVANTAGES

- Suitable for use in severe operating conditions (from -30°C to +90°C)
- Excellent chemical resistance against many aggressive chemicals
- Usable with all types of waterproofing membranes such as Elastocem and Coverflex

TECHNICAL FEATURES

Colour: White
Roll length: 50 m
Roll width: 1 m
Weight 148 g/m²
Shelf life: Unlimited in original packaging in a dry place
Packaging: 50 m² rolls



Osmogrout

Osmotic cementitious mortar for waterproofing masonry and concrete structures in positive and negative pressure. For interiors and exteriors. Product with low volatile organic compound emission rate.

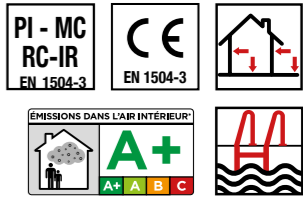
ADVANTAGES

- Quick and easy installation
- For interior and exterior wall and floor coverings

TECHNICAL FEATURES

Colour: Grey
Mixing ratios:
Water = 26% -28%
(6.5-7 litres of water per 25 kg bag)
Mix curing time: 5 minutes
Mix consistency:
Fluid grout for trowel/brush application
Pot life: Approx. 60 minutes
Application temperatures allowed:
From +5°C to +35°C

Thickness per coat: < 2.5 mm
Total thickness: < 4 mm
Ready for use: 7 days
Temperature of use: From -30°C to +90°C
Consumption: 1.6 kg/m² per mm of thickness
Shelf life: 12 months in original packaging in a dry place. Protect against frost.
Packaging: 25 kg bag



Primer F

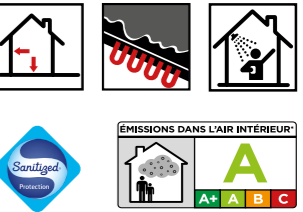
Ready-to-use waterproofing primer in aqueous dispersion for indoor wet areas. Product with low volatile organic compound emission rate.

ADVANTAGES

- Single component ready-to-use product that does not require any preparation
- The product does not contain solvents and is therefore not flammable or hazardous; it can therefore be used in indoor areas without posing a risk to the operator
- The dried film is elastic and water-resistant
- The product is pigmented to allow easy identification of treated areas

TECHNICAL FEATURES

Colour: Yellow
Application temperatures allowed: From +5°C to +35°C
Application: Roller or brush
Waiting time between coats: 20 minutes
Waiting time for installation of waterproofing system: 30 minutes
Consumption: 0.15 kg/m² per coat
Shelf life: 24 months in original packaging in a dry place. Protect against frost.
Packaging: 5 and 10 kg cans



Primer SK

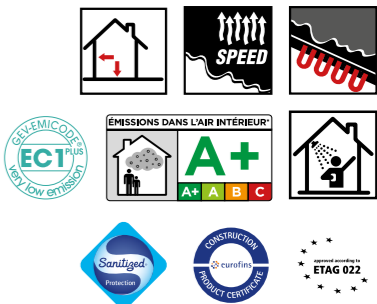
Ready-to-use waterproofing primer in aqueous dispersion for indoor wet areas. Complies with standard ETAG 022 part 1. Suitable for underfloor heating. Product with very low volatile organic compound emission rate.

ADVANTAGES

- Single component ready-to-use product that does not require any preparation
- Reusable product.
- The product is pigmented to allow easy identification of treated areas
- The dried film is elastic and water-resistant
- Applicable on different types of substrates

TECHNICAL FEATURES

Colour: Pink
Application temperatures allowed: from +10°C to +30°C
Consumption: 0.15 kg/m² per coat
Shelf life: 12 months in original packaging in a dry place. Protect against frost.
Packaging: 4 kg buckets



Litoproof Extreme

Membrane in rolls for under-tile waterproofing. For interiors and exteriors.
Product with very low volatile organic compound emission rate.

ADVANTAGES

- Product with ultra-low volatile organic compound (VOC) emission rate. Compliant with class EC1^{PLUS} according to the EMICODE protocol and class A+ (Émission dans l'air intérieur - French regulations)
- Complies with the requirements of standard EN 13956 regarding plastic membranes for the waterproofing of coverings
- Guarantees utmost reliability of waterproofing by means of its consistent thickness
- Retains its elasticity even at very low temperatures (- 30°C)
- Perfect for repairs to existing waterproofing on balconies and terraces insofar as the product can be overlaid on existing ceramic and porcelain tile or natural stone floors, thus avoiding radical and costly demolitions
- Very high elasticity and impermeability
- Easy and quick installation. The centimetre markings along the edges allow the rolls to be perfectly aligned
- The white colour offers good solar reflectance, preventing the surface from overheating before the installation of ceramics during warm and sunny periods

TECHNICAL FEATURES

Colour: White
Roll width: 100 cm
Roll length: 10 - 30 metres
Thickness: 0.50 mm
Application temperatures allowed: From +5°C to +30°C
Temperature of use: From – 30°C to +90°C
Shelf life: 24 months in original packaging away from sources of heat and direct sunlight. Protect against frost.
Packaging: 10 and 30 m² rolls (roll width = 1 m)



Litoproof Plus

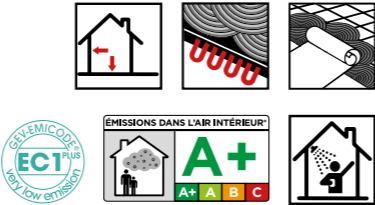
Membrane in rolls for under-tile waterproofing. For interiors.

ADVANTAGES

- Suitable for overlaying on existing flooring
- Easy and quick installation. The centimetre markings along the edges allow the rolls to be perfectly aligned
- Guarantees utmost reliability of waterproofing by means of its consistent thickness

TECHNICAL FEATURES

Colour: Grey
Roll width: 100 cm
Roll length: 10 - 30 metres
Thickness: 0.50 mm
Application temperatures allowed: From +5°C to +30°C
Temperature of use: From -30°C to +90°C
Shelf life: 24 months in original packaging away from sources of heat and direct sunlight. Protect against frost.
Packaging: 10 and 30 m² rolls (roll width 1 m)



Litoband SK Tape

Sealing tape for waterproofing, for interiors and exteriors.

ADVANTAGES

- Suitable for use in severe operating conditions (from -30°C to +90°C)
- Excellent chemical resistance against many aggressive chemicals
- Usable with all types of waterproofing membranes such as Elastocem, Coverflex and Hidroflex

TECHNICAL FEATURES

Colour: Grey
Total width: 120 mm
Total thickness: 0.66 mm
Weight: 364 g/m²

Recommended application temperature: From +5°C to +35°C
Temperature of use: From – 30°C to +90°C
Roll length: 10 - 50 m
Shelf life: Unlimited in original packaging in dry place.
Packaging: 10 and 50 m rolls

Litoband SK Corner

Corners for perfect sealing of waterproofing systems, for interiors and exteriors.

ADVANTAGES

- Suitable for use in severe operating conditions (from -30°C to +90°C)
- Excellent chemical resistance against many aggressive chemicals
- Usable with all types of waterproofing membranes such as Elastocem, Coverflex, Hidroflex. Litoproof Plus, Litoproof Extreme

TECHNICAL FEATURES

Colour: Grey
Total width: 120 mm
Thickness: 0.7 mm
Length of corners: 400 mm
Packaging: Box of 25 pieces
Weight: 360 g/m²

Recommended application temperature: From +5°C to +35°C
Temperature of use: From – 30°C to +90°C
Shelf life: Unlimited in original packaging in dry place.
Packaging: Boxes of 25 pcs.

Litoband Tape

Sealing tape for waterproofing, for interiors and exteriors.

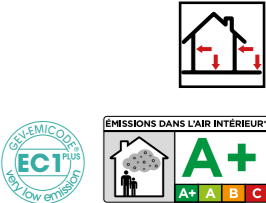
ADVANTAGES

- Suitable for use in severe operating conditions (from -30°C to +90°C)
- Excellent chemical resistance against many aggressive chemicals
- Usable with all types of waterproofing membranes such as Elastocem, Coverflex, Hidroflex, Litoproof Plus, Litoproof Extreme

TECHNICAL FEATURES

Colour: Grey and white
Total width: 120 mm
Width of waterproof layer: 70 mm

Thickness: 0.8 mm
Weight: 30 g/m²
Roll length: 10 - 50 m
Packaging: 10 and 50 m rolls



Litoband SK Net

Reinforcing band for interiors

ADVANTAGES

- Micro-perforated reinforcing strip
- Certified according to ETAG 022 - part 1 together with Aquamaster EVO for waterproofing of indoor wet areas
- Ideal for the development of junctions and connections in Spaziocontinuo decorative systems.

TECHNICAL FEATURES

Colour: White
Total width: 100 mm
Thickness: 0.25 mm
Weight: 6.6 g/m²

Roll length: 10 m
Application temperatures allowed: From -5°C to +35°C
Temperature of use: From -5°C to +90°C
Shelf life: Unlimited in original packaging in dry place.
Packaging: 10 m rolls



Litoband SK Pipe Collar

Special gaskets for perfect sealing of pipework, for interiors and exteriors.

SK 8 - Pipe collar 120 x 120 mm - Ø 8 mm. For pipes with Ø 15-20 mm.
SK 35 - Pipe collar 250 x 250 mm - Ø 35 mm. For pipes with Ø 45-60 mm.
SK 65 - Pipe collar 250 x 250 mm - Ø 65 mm. For pipes with Ø 75-125 mm

ADVANTAGES

- Usable with all types of waterproofing membranes such as Elastocem, Coverflex, Litoproof Plus, Litoproof Extreme, Hidroflex and Aquamaster EVO

TECHNICAL FEATURES

Colour: White
Total size: SK 8 - 120x120 mm
SK 35/SK 65 - 250 x 250 mm
Hole diameter: SK 8 - 8 mm
SK 35 - 35 mm / SK 65 - 65 mm

For pipes with diameter:
SK 8 - 15-20 mm
SK 35 - 45-60 mm. SK 65 - 75-125 mm
Thickness: 0.60 mm
Packaging: Box of 25 pieces



Litoband SK Self-Adhesive Drain Collar

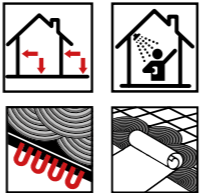
Special self-adhesive gasket for perfect sealing of drains in waterproofing systems, for interiors and exteriors.

ADVANTAGES

- Easy and quick installation
- Adheres perfectly to different types of substrates, both absorbent and non-absorbent, such as: cementitious screeds and plasters, concrete, masonry walls, fibre cement panels, metal, plastic, ceramic, natural stones
- The protective liner with overlapping tabs applied on the rear allows easy removal and positioning

TECHNICAL FEATURES

Colour: Grey
Sizes: 370x370 mm.
Thickness: 1.3 mm
Weight: 217 g/pc
Recommended application temperature: From +5°C to +30°C
Temperature of use: From -5°C to +60°C
Shelf life: 24 months in original packaging away from sources of heat and direct sunlight. Protect against frost.
Packaging: Box of 25 pieces



Litoband S.A.T.

Self-adhesive butyl tape

Litoband S.A.T. Corner

Litoband S.A.T. is supplied with internal corners (Litoband S.A.T. - AI) and external corners (Litoband S.A.T. - AE) in the same material, which allow the easy and safe sealing of junctions between horizontal and vertical surfaces.

ADVANTAGES

- The protective liner with overlapping tabs applied on the rear allows easy removal and positioning
- Usable with all types of waterproofing membranes such as Elastocem, Coverflex, Litoproof Plus, Litoproof Extreme, Hidroflex and Aquamaster EVO
- Adheres perfectly to different types of substrates, both absorbent and non-absorbent

TECHNICAL FEATURES

Colour: Grey
Width of waterproof layer: 100 mm
Thickness: 0.77 mm
Weight: 730 g/m²
Roll length: 20 metres
Recommended application temperature:

From +5°C to +30°C
Temperature of use:
From -30°C to +60°C
Shelf life: 24 months in original packaging away from sources of heat and direct sunlight. Protect against frost.
Packaging: 20-metre rolls
Corners: boxes of 25 pieces



Litoband Basic

Sealing tape for waterproofing, for interiors and exteriors.

Litoband Basic Corner

For the perfect sealing of corners, special pre-shaped Litoband pieces are available for internal (IC) and external (EC) corners, made using the same material.

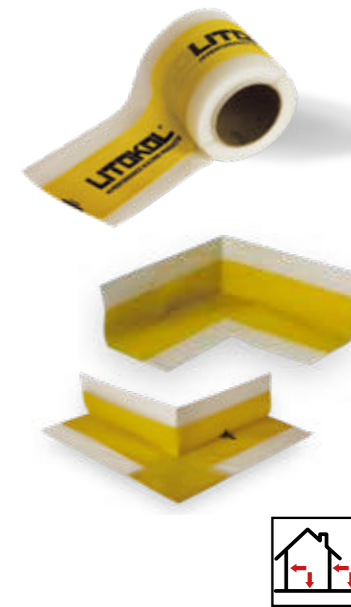
ADVANTAGES

- Suitable for use in severe operating conditions (from -30°C to +90°C)
- Excellent chemical resistance against many aggressive chemicals (see table)
- Usable with all types of waterproofing membranes such as Elastocem, Coverflex, Hidroflex, Litoproof Plus, Litoproof Extreme

TECHNICAL FEATURES

Colour: Yellow and white
Total width: 120 mm
Width of waterproof layer: 70 mm
Weight: 400 g/m²
Thickness: 0.6 mm
Recommended application temperature:
From +5°C to +35°C

Temperature of use:
From -30°C to +90°C
Shelf life: Unlimited in original packaging in a dry place.
Packaging:
10- and 50-metre rolls
Corners: boxes of 25 pieces



Litoband Koll

Single component quick-setting adhesive grout for the bonding and sealing of Litoband waterproofing tape. For interiors and exteriors.

ADVANTAGES

- Waterproof
- Single-component
- Easy to apply

TECHNICAL FEATURES

Colour: light grey
Mix ratio:
3 kg (1 bag) – Water 1 l (35%)
Mix consistency: creamy grout
Mix curing time: 5 minutes
Bonding time: 20 minutes
Pot life: about 50 minutes
Application thicknesses: from 1 to 5 mm

Application: notched trowel
Application temperatures allowed:
from +5°C to +35°C
Temperature of use:
from -30°C to +80°C
Shelf life: 24 months in original packaging in dry place. Protect against frost.
Packaging: 3 kg bags



Litostop Water

Hydro-expansive thermoplastic tape for sealing connecting castings in concrete structures, for interiors and exteriors.

ADVANTAGES

- Excellent expansion capacity after contact with water
- Expansion capacity always reversible over time, unlike classic sodium bentonite joints
- Suitable for both occasional and permanent contact even with chlorinated water
- Adapts to the volume defined by the confinement and perfectly seals the joints

TECHNICAL FEATURES

Composition of the material:

Modified thermoplastic elastomer

Colour: Red

Roll length: 10 m

Sizes: 5 x 20 mm

Application temperatures allowed:

From +5°C to +50°C

Shelf life: 24 months in original packaging

when stored in a dry place

Packaging: 10 m rolls

NEW



Litoswell

Hydro-expansive, polymer sealant in cartridges, for sealing and waterproofing through pipes in concrete, lights, inlets and drains in swimming pools or tanks. For interiors and exteriors.

ADVANTAGES

- Excellent expansion capacity. It can increase by up to double its volume in contact with water
- Elastically seals, maintaining its features over time
- Ready to use
- Easy to apply
- Excellent bonding on concrete, wood, plastic, steel and fibre cement
- Perfectly adheres to damp surfaces also

TECHNICAL FEATURES

Composition of the material: Hydro-expansive polymer sealant

Colour: Red

Consistency: Thixotropic paste

Application temperatures allowed: From +5°C to +40°C

Set to touch: 10 hours

Consumption dependent on the shape of the cavity: About 1 cartridge for 3 m

Shelf life: 12 months in original packaging in a dry place. Protect against frost.

Packaging: 300 ml cartridge

NEW



Litosil MS

Multi-purpose waterproof elastic adhesive grout. For interiors and exteriors. Certified according to ISEGA for contact with foodstuffs. Product with very low volatile organic compound emission rate.

ADVANTAGES

- Versatile product.
- Certified according to ISEGA for contact with foodstuffs
- Excellent adhesion without primer on all typical industrial and building materials.
- Wet and immersion bonding
- No hazard symbol on label
- Can be painted over with most water-based and solvent-based paints

TECHNICAL FEATURES

Appearance: White thick paste

Polymerisation: Hygro-hardener

Open time: Approx. 20 minutes

Application temperatures allowed: from +5°C to +35°C

Recommended application temperature: from +15°C to +25°C

Temperature of use: from -30°C to +90°C

Light foot traffic: 24 hours

Ready for use: 5 days

Shelf life:

12 months in original packaging away from sources of heat and direct sunlight.

Keep away from frost

Packaging: 290 ml cartridge

NEW



> Special products

Special products

NEW

Litotex

Anti-fracture separation membrane for the installation of floors and coverings in ceramic and porcelain tiles, porcelain stoneware and natural stones, even removable. For interiors.

ADVANTAGES

- Anti-fracture membrane for the installation of ceramics or natural stones on cracked cement screeds
- Removable separation membrane for the interior installation of ceramics or natural stones, protecting the existing substrates
- Suitable for overlaying on existing flooring

TECHNICAL FEATURES

Appearance: Composite fabric

Composition of material (externally): Non-woven polypropylene

Composition of material (internally): Fibreglass mesh

Colour: White

Roll length: 50 m

Roll width: 1 m

Thickness: 0.85 mm

Total thickness: > 2 mm

Weight: 235 g/m²

Application temperatures allowed: From +5°C to +35°C

Waiting time for installation of covering: Immediate

Temperature of use: From -30°C to +90°C

Shelf life: Unlimited in original packaging in a dry place

Packaging: Rolls of 50 m²



Idrokol X20

Synthetic resin-based latex in aqueous dispersion adhesion aid for cementitious mortars. For interiors and exteriors.

ADVANTAGES

- Solvent-free, odourless product
- Fast and easy application
- Reduced consumption
- Also suitable for outdoor paving

TECHNICAL FEATURES

Appearance: White liquid

Consumption: According to use

Application temperatures allowed: From +5°C to +35°C

Shelf life: 24 months in original packaging in a dry place.

Protect against frost.

Packaging: 5-10-20 kg cans



Latexkol

Elasticising synthetic latex for cementitious adhesives. Suitable for underfloor heating. For interiors and exteriors. Product with very low volatile organic compound emission rate.

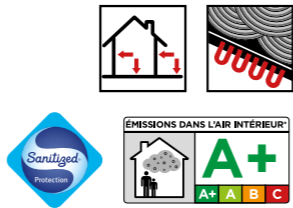
ADVANTAGES

- Suitable for installation on heating screeds
- Plastic and fluid mixture

TECHNICAL FEATURES

Appearance: White liquid
Mix curing time: 5 minutes
Pot life: about 8 hours
Light foot traffic: 24 hours
Ready for use: 14 days
Application: Notched trowel
Temperatures for application: from +5°C to +30°C

Temperature of use: from -30°C to +90°C
Consumption: According to use
Shelf life: 24 months in original packaging in a dry place. Keep away from frost
Packaging: 5-10-20 kg cans



Idrostuck

Liquid additive in aqueous dispersion for cementitious grouts. Suitable for underfloor heating. For interiors and exteriors. Product with very low volatile organic compound emission rate.

ADVANTAGES

- Suitable for installation on heating screeds
- Plastic and fluid thixotropic mix
- Highly resistant to abrasion
- Water-repellent
- Stable and consistent colours

TECHNICAL FEATURES

Appearance: White liquid
Mix consistency: creamy thixotropic mortar
Mix curing time: 5 minutes
Pot life: 40 minutes
Light foot traffic: 24 hours
Application: Grout rubber float

Ready for use: 7 days - Swimming pools 7 days
Application temperatures: from +5°C to +35°C
Temperature of use: from -30°C to +80°C
Consumption: see grout consumption
Shelf life: 24 months in original packaging in a dry place. Keep away from frost
Packaging: 2-5-10 kg cans



Concrete Primer

Anti-dust treatment in aqueous dispersion for concrete floors. For interiors and exteriors. Ready to use.

ADVANTAGES

- Ready to use
- Fast and easy application
- Floors treated with Concrete Primer are set to light foot traffic 24 hours after application
- Reduced consumption
- Also suitable for outdoor paving
- Solvent-free, odourless product
- Product not subject to restrictions for road, sea, air and rail transport

TECHNICAL FEATURES

Colour: White
Application temperatures allowed: From +10°C to +30°C
Waiting time between first and second coat: 2 hours
Ready for use: 24 hours
Application: Short pile roller

Total consumption: 5-10 m²/litre
Shelf life: 24 months in original packaging in dry place. Protect against frost.
Packaging: 5 kg cans



Primer X94

Insulating primer in aqueous dispersion for gypsum- and anhydrite-based substrates. For interiors.

ADVANTAGES

- Ready to use
- Consolidates the surface of the substrate
- Reduces the surface absorption of the substrate.
- Increases the workability of plaster and avoids cracking caused by shrinkage
- Increased adhesion of various types of coverings (paints, plasters, wallpapers, tiles, etc.)
- Prevents the chemical reaction between the gypsum and cement in tile adhesives responsible for the formation of a salt called "ettringite", which is the main cause of detachment of ceramic and porcelain tiles from gypsum-based substrates

TECHNICAL FEATURES

Colour: Greenish
Application: Roller or brush
Application temperatures allowed: From +5°C to +35°C
Temperature of use: From -5°C to +35°C
Waiting time for application of cement-based products: 2 hours

Consumption: 100-200 g/m²
Shelf life: 24 months in original packaging in a dry place. Protect against frost.
Packaging: 5-10 kg cans



Primer C

Consolidating and insulating primer in aqueous dispersion. For interiors. Ready to use. Product with very low volatile organic compound emission rate.

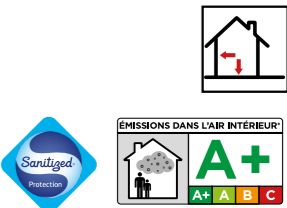
ADVANTAGES

- Ready to use
- Fast and easy application
- Solvent-free, odourless product

TECHNICAL FEATURES

Colour: White
Application: Roller or brush
Application temperatures allowed: From +10°C to +35°C
Temperature of use: From -5°C to +90°C
Waiting time for application of cement-based products: 4 hours

Penetration: High
Consumption: 100-300 g/m²
Shelf life: 24 months in original packaging in a dry place. Protect against frost.
Packaging: 5-10 kg cans



Prepara Fondo EVO

Universal adhesion promoter primer for adhesives, self-levellers, skim coats and cement plasters on smooth and non-absorbent surfaces. Suitable for overlaying and underfloor heating. For interiors and exteriors. Ready to use. Product with very low volatile organic compound emission rate.

ADVANTAGES

- Versatile product.
- Ready to use
- Adheres perfectly to different types of substrates such as: concrete, fibre cement panels, PVC, linoleum, wood, ceramic and porcelain tiles, stoneware, natural stones, surfaces with organic adhesive residue
- Easy and quick installation. Dries after 2 hours. Overlaying possible after 4 hours
- Suitable for interior and exterior floor and wall applications, even in severe operating conditions
- Reduced consumption
- Excellent resistance to humidity
- Product featuring pseudoplastic rheology which prevents dripping on wall applications.

TECHNICAL FEATURES

Colour: Grey
Application: Long pile roller, round-edged PVC trowel
Application temperatures allowed: from +5°C to +35°C
Temperature of use: from -20°C to +80°C
Drying time:

Roller: 2 hours - Trowel: 6 hours
Consumption: Roller: 150 - 200 g/m²
Trowel with 2x2 mesh: 0.8 kg/m
Shelf life: 24 months in original packaging in dry place. Protect against frost.
Packaging: 5-10 kg buckets



Multifondo EVO

Two-component epoxy skim coat. Suitable for overlaying and underfloor heating. For interiors. Product with very low volatile organic compound emission rate.

ADVANTAGES

- White colour that enhances the colours of the Spaziocontinuo® and Starlike® Decor textures without altering their original shade
- Suitable to repair any crackings and fissures in cement screeds, sprinkling quartz sand with granulometry 0.4-1 mm over the surface while fresh, before applying adhesives, self-levellers or cementitious skim coats, and waterproofing membranes.

TECHNICAL FEATURES

Appearance of mix: Thixotropic paste
Pot life: Approx. 60 minutes
Application temperatures allowed: From +5°C to +30°C

Waiting time between coats: 12 hours
Waiting time for over laying: 12 hours
Temperature of use: From -30°C to +80°C
Consumption: 1st coat: 1.5 kg/m²
2nd coat: 1 kg/m²



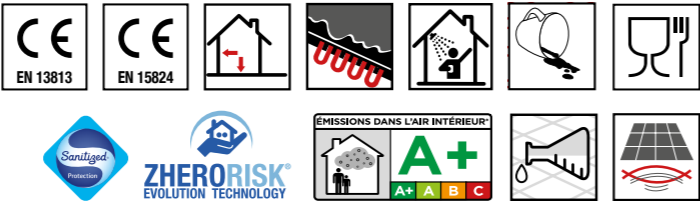
Hidrolux EVO

Two-component clear glossy, satin, and matt protective finish. Suitable for overlaying and underfloor heating. For interiors. Product with very low volatile organic compound emission rate. Surface protection against the spread of bacteria.

TECHNICAL FEATURES

Finish: Clear (matt, satin or glossy)
Workability time: 1 hour
Application: Short pile or velvet roller
Pot life: 90 minutes
Application temperatures allowed: From +5°C to +30°C
Temperature of use: From -5°C to +80°C
Waiting time between coats: 3-4 hours
Ready for use: 4-5 days
Consumption: 0.14 kg/m² in two coats

Shelf life: 12 months in original packaging in a dry place.
Packaging: 1.0 kg bottle part A + 0.2 kg bottle part B



Litostick X35

Hot melt glue sticks for ceramic samples

TECHNICAL FEATURES

Colour: Yellow
Stick diameter: 12 mm
Stick length: 120 mm
Melting point: 180-190°C
Open time: 30 seconds

Shelf life: Unlimited in original packaging in a dry place
Packaging: Box of 500 sticks.



Litogap

Closed-cell expanded polyethylene tubing for expansion joints.

ADVANTAGES

- Totally non-absorbent of water
- Retains its features unaltered over time
- Excellent support for elastomeric sealants since it is extremely elastic
- The non-stick surface allows the fluid application of elastomeric sealants



TECHNICAL FEATURES

Colour: Grey
Temperature of use: From -40°C to +80°C
Water absorption: None
Shelf life: Unlimited in original packaging in a dry place

Packaging:
Ø 6 mm – 100 m rolls
Ø 10 mm – 100 m rolls
Ø 15 mm – 100 m rolls
Ø 20 mm – 50 m rolls
Ø 25 mm – 50 m rolls
Ø 30 mm – 25 m rolls

Litoside

Self-adhesive band in expanded polyethylene for perimeter separation joints

ADVANTAGES

- Totally non-absorbent of water
- Retains its features unaltered over time
- Compressible and elastic



TECHNICAL FEATURES

Colour: Grey
Height: 100 mm
Thickness: 5 mm
Temperature of use: From -30°C to +90°C
Shelf life: Unlimited in original packaging in a dry place
Packaging: 20 m boxes (2 x 10 m rolls)

> Tools for installation

Tools for installation

Litolevel

Tile levelling spacers.

LITOLEVEL guarantees simple and fast tile installation, eliminating slippage between tiles, thus ensuring perfectly levelled floors and coverings.

LITOLEVEL is recommended for the installation of large porcelain stoneware, ceramic and natural stone tiles, as well as thin porcelain stoneware or agglomerate stone slabs (thicknesses of 3/6 mm).

The system is composed of 3 elements: base, cone and nut.

It does not require the use of pliers or tools of any type.

BASE

The bases are made to level tiles with a thickness from between 3 mm and 12 mm, creating joints with a minimum width of 1.50 mm. It is possible to obtain joints with greater sizes through the combine use of LITOLEVEL and spacers of the desired size.

CONE

The cone is practical and easy to insert. It is made of rigid plastic, allowing efficient tile levelling. The nut too is reusable and can be used hundreds of times.

NUT

The nut is made of rigid plastic and has been designed for easy insertion into the base. The nut too is reusable and can be used hundreds of times.



Tools for installation

Tile levelling spacers

LEVELLING SPACERS FOR FLAT INSTALLATION

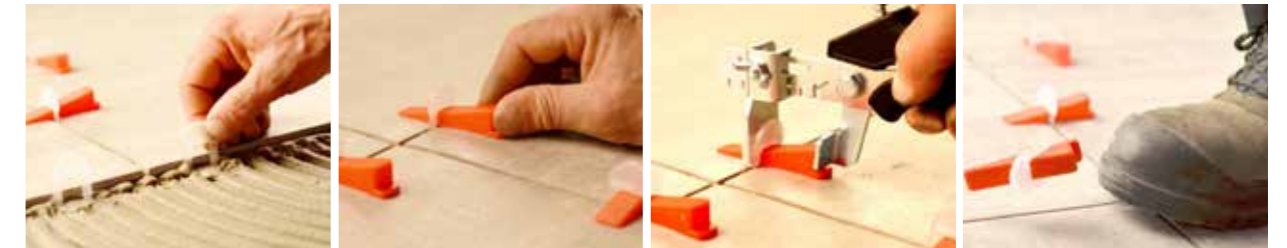
Bucket: 100 wedges, 100 bases, 1 clamp

FASTENING WEDGE

Box of 24 bags x 100 pcs

BASE

Box of 8 bags x 500 pcs



Tile spacers

1 mm SPACER + 25 bags x 1000 pcs

1 mm T SPACER 25 bags x 1000 pcs

1.5 mm SPACER + 30 bags x 1000 pcs

2 mm SPACER + 25 bags x 1000 pcs

2 mm T SPACER + 25 bags x 1000 pcs

3 mm SPACER + 25 bags x 1000 pcs

3 mm T SPACER 15 bags x 1000 pcs

MIXED SPACING WEDGES 20 bags x 1000 pcs



EN 12004 - Rrequirements for adhesives for ceramic and porcelain tiles

C	Polymer-modified cementitious adhesive	
D	Adhesive in aqueous dispersion	
R	Reactive adhesive	

Cementitious adhesives	C1 – Normal adhesives	C2 – Improved adhesives
Basic characteristics (C)	Requirement	Requirement
Initial tensile adhesion strength	≥ 0.5 N/mm²	≥ 1.0 N/mm²
Tensile adhesion strength after water immersion	≥ 0.5 N/mm²	≥ 1.0 N/mm²
Tensile adhesion strength after heat action	≥ 0.5 N/mm²	≥ 1.0 N/mm²
Tensile adhesion strength after freeze-thaw cycles	≥ 0.5 N/mm²	≥ 1.0 N/mm²
Open time	≥ 0.5 N/mm²	≥ 0.5 N/mm²

Optional characteristics (C)	Requirement
(F) Accelerated initial tensile adhesion strength (6 hours)	≥ 0.5 N/mm²
(T) No vertical slip	< 0.5 mm
(E) Extended open time	≥ 0.5 N/mm²
(S1) Deformable adhesive	≥ 2.5 mm and < 5 mm
(S2) Highly deformable adhesive	≥ 5 mm

Dispersion adhesives	D1 – Normal adhesives	D2 – Improved adhesives
Basic characteristics (D)	Requirement	Requirement
Initial shear adhesion strength	≥ 1.0 N/mm²	≥ 1.0 N/mm²
Shear adhesion strength after water immersion	-	≥ 0.5 N/mm²
Shear adhesion strength after heat action	≥ 1.0 N/mm²	≥ 1.0 N/mm²
Shear adhesion strength at high temperature	-	≥ 1.0 N/mm²
Open time	≥ 0.5 N/mm²	≥ 0.5 N/mm²

Optional characteristics (D)	Requirement
(T) No vertical slip	< 0.5 mm
(E) Extended open time	≥ 0.5 N/mm²

Reaction resin adhesives	R1 – Normal adhesives	R2 – Improved adhesives
Basic characteristics (R)	Requirement	Requirement
Initial shear adhesion strength	≥ 2.0 N/mm²	≥ 2.0 N/mm²
Shear adhesion strength after water immersion	≥ 2.0 N/mm²	≥ 2.0 N/mm²
Shear adhesion strength after heat action	-	≥ 2.0 N/mm²
Open time	≥ 0.5 N/mm²	≥ 0.5 N/mm²

Optional characteristics (R)	Requirement
(T) No vertical slip	< 0.5 mm

EN 13888 - Rrequirements for grouts for ceramic and porcelain tiles

CG	Polymer-modified cementitious grout	
RG	Reactive grout	

Basic characteristics (CG)	CG1 – Normal cementitious grout	Requirement
Resistance to abrasion		< 2000 mm³
Compressive strength		≥ 15.0 N/mm²
Flexural strength		≥ 2.5 N/mm²
Compressive strength after freeze-thaw cycles		≥ 15.0 N/mm²
Flexural strength after freeze-thaw cycles		≥ 2.5 N/mm²
Shrinkage		≤ 3 mm/m
Water absorption after 30 minutes		≤ 5 g
Water absorption after 240 minutes		≤ 10 g

Optional characteristics (CG2 W A)	Requirement
Resistance to abrasion	< 1000 mm³
Water absorption after 30 minutes	≤ 2 g
Water absorption after 240 minutes	≤ 5 g

Basic characteristics (RG)	Requirement
Resistance to abrasion	< 250 mm³
Compressive strength	≥ 45.0 N/mm²
Flexural strength	≥ 30.0 N/mm²
Shrinkage	≤ 3 mm/m
Water absorption after 240 minutes	≤ 0.1 g

EN 14891 - Requirements for liquid applied impermeable products for use beneath ceramic and porcelain tiling bonded with adhesives

CM	Polymer-modified cementitious liquid applied water impermeable product
DM	Dispersion liquid applied water impermeable product
RM	Reactive liquid applied water impermeable product

Basic characteristics (CM – DM – RM)	Requirement
Initial tensile adhesion strength	$\geq 0.5 \text{ N/mm}^2$
Tensile adhesion strength after water immersion	$\geq 0.5 \text{ N/mm}^2$
Tensile adhesion strength after heat action	$\geq 0.5 \text{ N/mm}^2$
Tensile adhesion strength after freeze-thaw cycles	$\geq 0.5 \text{ N/mm}^2$
Tensile adhesion strength after contact with limewater	$\geq 0.5 \text{ N/mm}^2$
Impermeability	No penetration and increase in weight $\leq 20 \text{ g}$
Crackbridging capacity in normal conditions	$\geq 0.75 \text{ N/mm}^2$
Optional characteristics (CM – DM – RM)	Requirement
(P) Tensile adhesion strength after contact with chlorinated water	$\geq 0.5 \text{ N/mm}^2$
(01) Crackbridging capacity at low temperature (-5°C)	$\geq 0.75 \text{ mm}$
(02) Crackbridging capacity at very low temperature (-20°C)	$\geq 0.75 \text{ mm}$

LITOKOL[®]

Litokol S.p.A.

Via Giovanni Falcone 13/1

42048 Rubiera (RE)

Tel +39 0522 622811

Fax +39 0522 620150

info@litokol.it

www.litokol.it



Made In Italy

