
SafetyGel®

Technical specifications



Continuous, elastic, watertight and anti-fracture Gel membrane for waterproofing swimming pools, terraces, balconies and showers, and for preventing cracks during the installation of tiles of all types and formats. Formula pending international Patent. Science-based

Product description

Continuous, elastic, watertight and anti-fracture Gel membrane for waterproofing swimming pools, terraces and showers, and for preventing cracks during tile installation; ready-to-use, quick-drying (rain-proof in 2 hours), does not require reinforcing mesh, tapes or strips for waterproofing corners and edges.

It can be applied easily with a roller, brush, smooth steel trowel or airless sprayer, creating a continuous water barrier for swimming pools, outdoor areas and wet environments; it also acts as an elastic adhesive membrane for crack isolation with exceptional tensile bond strength, thanks to its latest-generation Gel properties.

Ensures structural adhesion even on non-absorbent substrates such as old ceramic and porcelain tiles, fibreglass, PVC, metal and wood.

When SafetyGel® is combined with PowerGel® S1+, it forms the High Adhesion Anti-Fracture System - TileSafe System; this system is engineered for the installation of large-format tiles and slabs of any type and size in high-traffic areas, even on cracked substrates (up to 3 mm).

The 6 dimensional system helps dissipate and neutralise the movements of the substrate and the expansions of the covering, and distributes heavy loads evenly without tension.

Classified DM 02 P - EN 14891

Proprietary Gel formula

Elastomeric gel with a blend of proprietary polymer resins
3D structure with polymerised quartz microspheres and inorganic microfillers
Enhanced with natural lamellar magnesium silicates
Hydrophobic-protective booster based on reactive groups with weatherproof action
With increased cross-linking action

SafetyGel® embodies Litokol's continuous scientific progress.
It is designed with innovative raw materials to improve the installation experience and safety, and to reduce the environmental impact.

Powered by

6-Dimensional Elasticity® technology

6-direction multi-dimensional elasticity

The unique characteristic of 6-Dimensional Elasticity® technology is the ability to deform in six different directions: horizontal, vertical, diagonal, and in two torsional directions, with the added capacity to deform in a complex manner under varying stresses.

This advanced elasticity allows the SafetyGel® membrane to adapt to complex structural movements, such as thermal expansion, vibrations, micro-settlements and mechanical stresses, without compromising its integrity and functionality.

Performance Gel continuous membrane

Seamless Gel safety membrane

Intuitive application. SafetyGel® spreads evenly, quickly and easily, with a roller, trowel, brush or by spraying across the entire surface, both horizontal and vertical, even in difficult areas such as corners, edges, micro-cracks and floor-wall connections, avoiding the need for additional reinforcements such as meshes or tapes.

It easily adapts to irregular surfaces with complex shapes or surfaces that are difficult to treat with traditional roll or cementitious membranes.

Continuity. SafetyGel® is engineered with 6-Dimensional elasticity which ensures perfect adhesion even on uneven or difficult surfaces, such as cracked flooring or complex structures, guaranteeing elasticity and flexibility performance over time, even in connections 90° corners.

It has no joints because the Gel self-polymerises in overlaps or connections through a chemical process where the material molecules bond together, forming a covalent three-dimensional network.

The continuous Gel membrane thus provides uninterrupted protection, eliminating vulnerable areas that could develop around tapes or flanges.

Performance Gel watertight membrane

Watertight Gel safety membrane

Total impermeability. SafetyGel® is an advanced waterproofing solution, designed to offer a continuous, complete watertight barrier against water, preventing infiltrations even in high water pressure conditions.

- Watertight - Positive pressure impermeability > 3.0 bar
- Suitable for extra-heavy duty service conditions - chlorinated water (P)

Flexibility. The Gel has 6-Dimensional elasticity, allowing the membrane to adapt to structural movements without compromising the effectiveness of the protection. It is ideal for application in dynamic environments where there are temperature changes, possible vibrations and thermal expansions.

- Permanent 6-Dimensional elasticity up to -20°C (02)
 - Double Crack-bridging capacity (23°C) > 1.66 mm
 - Elasticity - elongation at breaking point > 500%
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Performance Gel anti-fracture membrane

High adhesion, anti-fracture Gel safety membrane

Movement absorption. SafetyGel® acts as a continuous, thin, highly adherent and ultra-resistant elastic layer, that absorbs small movements of the substrate, preventing the formation of cracks and fractures in the tiles.

This is particularly useful in environments where the substrate may experience movements or expansions, such as with ceramic flooring, concrete or other materials susceptible to deformation over time.

Resistance to cracking and fracturing. SafetyGel® combined with PowerGel® S1+ forms the High Adhesion Anti-Fracture System - TileSafe System, which prevents compression or tension forces from damaging the tiles.

The System consists of two different technologies:

1. SafetyGel® - a 6-Dimensional elastic, anti-fracture membrane, capable of absorbing and compensating for movements in all six spatial directions before they are transmitted to the covering.
2. PowerGel® S1+ - a smart, tri-polymeric, elastic anti-fracture Gel, enhanced with Crack Prevention® technology, capable of protecting the internal adhesion zone from micro-cracks and mechanical stress.

It acts as a smart structural interface, protecting the adhesive transition zone (ITZ) and promoting an elastic and durable anchorage.

Together, these two elements form an active integrated system that works in adhesion: the interaction between the 2 technologies drastically reduces stress concentration, prevents the vertical and lateral propagation of micro-cracks, and increases the mechanical durability of the covering system.

SafetyGel® and PowerGel® S1+ are not two separate products, but a co-engineered system that elevates installation to a new level of reliability. A single, resilient, adaptive and monolithic surface capable of preventing cracks, managing stress and lasting over time.

The System works with exceptional tensile adhesion strength, ideal for large format tiles and slabs of any type and size in high-traffic areas, even on cracked substrates (up to 3 mm), and guarantees structural adhesion even on non-absorbent substrates like existing tiles, fibreglass, PVC and wood.

The Gel membrane is designed to be durable, maintaining its elasticity over time without deteriorating, significantly extending the lifespan of the bonded system.

- Crack isolation of the TileSafe System > 1.6 mm according to ANSI A

118.12

- Tensile adhesion of the TileSafe System > 1.8 N/mm² according to EN 14891

Focus TileSafe System for the elimination of movement joints.

The isolation capacity of the cracks is measured according to Standard ANSI A 118.12 – 5.4: the active integrated TileSafe System ensures the high elastic and durable adhesion of the bonded system, capable of absorbing crack opening movements greater than 1.6 mm.

The resilient, adaptive and monolithic system formed by combining PowerGel® S1+ with SafetyGel® is a continuous system that does not need to be interrupted at substrate movement joints and does not require adherence to them.

Compressive, tensile and shear forces are distributed and absorbed by the smart structural interface, which protects the adhesive transition zone (ITZ) and ensures an elastic and durable anchorage.

Outdoors, the most critical and stressful intended use for the bonded system, the movements of the substrates and of the bonded coverings are absorbed by a network of deformable elastic joints with a maximum mesh of 3x3m (UNI 11493 – 7.9) and a minimum width of 5 mm, capable of allowing transverse linear deformations of 1.3 mm (UNI 11493 7.9.2).

TileSafe System, characterized by a crack isolation capacity of > 1.6 mm, prevents movements and tensions in the substrates from damaging the newly bonded covering; however, it will still be necessary to create expansion joints, with full tiles, only for the thickness of the tiles.

In situations where more severe tensions are expected, it is possible to create the TileSafe System by combining SafetyGel® with PowerGel® Pro Max: the dynamic crack isolation ability of this combination ensures a monolithic structural adhesion capable of absorbing movements from cracks or joints exceeding 3.2 mm.

Performance Gel dissipating membrane

Gel safety membrane with uniform load distribution

Uniform distribution of stresses. SafetyGel®, when applied to the floor and then covered with tiles suitable for the intended use, is capable of distributing the loads evenly. When the surface undergoes stresses such as dynamic or static loads, the Gel structure acts as a shock absorber that distributes these forces across the entire surface, transferring them directly to the substrate, reducing the risk of concentrated stresses.

Resistance to deformation. SafetyGel® is designed to distribute loads; it is highly elastic and flexible and it resists better to local deformations that might occur when a force is concentrated at a single point. This feature is important in contexts where there are cyclic or repeated movements, such as in flooring.

- Approved for extra-heavy duty service.

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Chemistry + intelligent

100% pure Gel in H₂O phase
Does not contain solvents and plasticisers
Does not contain cements and acetic polymers
Not dangerous for applicators according to the CLP regulation
Continuous system free from rubber, plastic and PVC (rolls, meshes and tapes)
Ready-to-use, reusable, prevents waste and material scraps
It maintains elasticity and all performance even after being reopened and reused
Improves resource efficiency and prevents the disposal of unused product
Very low emissions of volatile organic compounds - VOC

Certifications

DM 02P EN 14891
ANSI A 118.10
ANSI A 118.12
EC1 Plus Gev Emicode
A+ Emissions dans l'air intérieurs
EPD Environmental Product Declaration

SafetyGel® and the Environment

LCA results for Global Warming Potential – Greenhouse Gas GWP-GHG								
Impact category	Unit	A1-A3	C1	C2	C3	C4	D	
Climate change GWP-GHG	kg CO ₂ eq	7.85 10 ⁻¹	4.38 10 ⁻³	1.14 10 ⁻²	0	2.97 10 ⁻²	-2.00 10 ⁻²	

Substrates

Screeds
Self-levellers
Levellers
Plasters and skimming coats
Existing tiles
Underfloor heating systems
Concrete and reinforced concrete
Gypsum
Gypsum and anhydrite
Fibre cement slabs
Wood and recomposed wood panels
Metals
Plastic and PVC
Fibreglass
Lightweight panels
Existing cement-polymer waterproofing systems

Uses

Floors - walls
Interiors - exteriors
Overlaying

Suitable for indoor and outdoor applications on floors and walls, on existing tiles and on radiant heating systems, even in severe operating conditions, allowing for quick drying in about 30 minutes and installation in about 1 hour

- Indoor wet areas, bathrooms and showers
- Swimming pools and fountains
- Terraces and balconies
- SPA and Hammam
- Façades
- Industrial floors
- Residential, public, commercial and street furniture
- Areas subject to high traffic and high stress

Indoors - in combination with PowerGel® S1+

- Cracked substrates
- New substrates that have not fully cured or of different nature
- Change the installation pattern or tile format
- Installation near thresholds
- Installation over tracks for systems
- Installation near expansion - control joints (combined with SafetyTex Anti-Fracture)

Outdoors - combined with SafetyTex Anti-Fracture and in combination with PowerGel® S1+

- Cracked substrates
- New substrates that have not fully cured or of different nature
- Change the installation pattern or tile format
- Installation near thresholds
- Installation over tracks for systems
- Installation near expansion - control joints

Limitations

Refer to national regulations, such as Standard UNI 11493

The ambient and surface temperature must be above +5°C during installation and for 72 hours after application

Apply the coating to the membrane within 72 hours in outdoor applications to avoid prolonged exposure to ultraviolet rays, alternatively cover with sunshade sheets; in applications exposed to traffic and abrasion, cover with suitable protection systems from direct abrasion until the coating is laid.

Do not apply on wet surfaces, damp substrates (> 3% R.H.) or surfaces subject to rising damp

Do not apply in thicknesses > 1 mm per coat

Do not apply in case of condensation on the surfaces

Do not apply on uneven or excessively rough substrates. Provide a skim coat with HydroLevel®

Do not use in the presence of negative hydraulic pressures

Do not use on wood surfaces not resistant to humidity

Do not leave the product exposed. Always provide a covering made of ceramic and porcelain tiles, natural stones or mosaics

Do not apply the product on bituminous membranes, rubber substrates or surfaces treated with resins

Protect the waterproofing against rain for the first 2 hours after application

Do not use the product for applications not indicated in this Technical Data Sheet

For further information, contact the Litokol Technical Help Service at +39-0522-622811 or via customercare@litokol.com

Product specifications

Composition	Single-component elastomeric gel
Appearance	Fluid thixotropic gel
Colour	Magenta violet
Responsible packaging	5, 10 and 20 kg post-consumer recycled plastic buckets
Shelf life	24 months in original packaging in a dry place. Keep away from frost
Customs code	40021100

Technical specifications

Compliance	DM 02 P	EN 14891
Initial adhesion	$\geq 0.5 \text{ N/mm}^2$	A.6.2
Adhesion after water immersion	$\geq 0.5 \text{ N/mm}^2$	A.6.3
Adhesion after thermal ageing	$\geq 0.5 \text{ N/mm}^2$	A.6.5
Adhesion after freeze/thaw cycles	$\geq 0.5 \text{ N/mm}^2$	A.6.6
Adhesion after contact with limewater	$\geq 0.5 \text{ N/mm}^2$	A.6.9
Adhesion after contact with chlorinated water	$\geq 0.5 \text{ N/mm}^2$	A.6.7
Waterproofing under positive pressure 1.5 bar	No penetration; weight increase < 20 g	A7
Crack-bridging capacity in normal conditions	$\geq 0.75 \text{ mm}$	A.8.2
Crack-bridging capacity at very low temperature (-20°C)	$\geq 0.75 \text{ mm}$	A.8.3

Compliance		ANSI A118.10
Growth of mould, fungi and microorganisms	Growth not permitted	4.1
Overlap pull-off strength	16 lbf/2" width	4.2
	7.4 kg/5 cm	4.2
Breaking strength	$\geq 170 \text{ psi}$	4.3
	$\geq 1.2 \text{ N/mm}^2$	4.3
Dimensional stability	< 0.7%	4.4
Impermeability at 48 hours	No penetration	4.5
Shear strength on concrete	$\geq 50 \text{ psi}$	5.0
with porcelain stoneware	$\geq 0.35 \text{ N/mm}^2$	5.0
Initial adhesion after 7 days	$\geq 50 \text{ psi}$	5.3
	$\geq 0.35 \text{ N/mm}^2$	5.3
Adhesion after immersion in water at 7 days	$\geq 50 \text{ psi}$	5.4
	$\geq 0.35 \text{ N/mm}^2$	5.4
Initial adhesion after 28 days	$\geq 50 \text{ psi}$	5.5
	$\geq 0.35 \text{ N/mm}^2$	5.5
Initial adhesion after 12 weeks	$\geq 50 \text{ psi}$	5.6
	$\geq 0.35 \text{ N/mm}^2$	5.6
Adhesion after immersion in water at 100 days	$\geq 50 \text{ psi}$	5.7
	$\geq 0.35 \text{ N/mm}^2$	5.7

Compliance		ANSI A118.12
Growth of mould, fungi and microorganisms	Growth not permitted	4.1
Shear strength on tiles	$\geq 50 \text{ psi}$	5.1
ceramic	$\geq 0.35 \text{ N/mm}^2$	5.1
Initial adhesion after 7 days	$\geq 50 \text{ psi}$	5.1.3
	$\geq 0.35 \text{ N/mm}^2$	5.1.3

Adhesion after water immersion	≥ 50 psi	5.1.4
	≥ 0.35 N/mm ²	5.1.4
Initial adhesion after 28 days	≥ 50 psi	5.1.5
	≥ 0.35 N/mm ²	5.1.5
Adhesion after ageing	≥ 50 psi	5.1.6
thermal	≥ 0.35 N/mm ²	5.1.6
Point load test	≥ 1000 lbf	5.2
	≥ 454 kg	5.2
Crack isolation (opening)		5.4
- SafetyGel® + PowerGel® S1+	≥ 1/16"	Standard
	≥ 1.6 mm	performance
- SafetyGel® + PowerGel® Pro Max	≥ 1/8"	High
	≥ 3.2 mm	performance

Specifications for application

Preparing the Gel mix	Ready-to-use gel
pH of mix	8 - 9
Specific gravity of mix	1.48 kg/dm ³
Total thickness (dry)	0.8 - 1 mm
Application	Roller, brush, smooth steel trowel or airless sprayer
Application temperatures	From +5°C to +40°C
Waiting time after any coat diluted with water by 10-20%	30 min
Waiting time between subsequent pure coats	2 h
Waiting time for installation of covering	2 h
Temperature of use	From -20°C to +90°C
How to clean equipment	With water when product is fresh. Mechanically when product has set.
Notes	Data detection at a temperature of +23°C, 50% R.H. and with no wind. May vary depending on the specific conditions of the installation site

Consumption on concrete, gypsum, ceramic and porcelain tiles, natural stone, mosaics, fibre cement panels, wood panels	1.0 kg/m ² in two coats
Consumption on HydroLevel / X-Level skim coats, cementitious skim coats and lightweight panels with cementitious skim coats	1.2 kg/m ² in two coats
Consumption on X-Floor / X-Floor Pro screeds and cementitious screeds	1.4 kg/m ² in three coats

Consumption for crack isolation ANSI A 118.12 on concrete, gypsum, ceramic and porcelain tiles, natural stone, mosaics, fibre cement panels, wood panels	1.5 kg/m ² in two or more coats
Consumption for crack isolation ANSI A 118.12 on HydroLevel / X-Level skim coats, cementitious skim coats and lightweight panels with cementitious skim coats	1.7 kg/m ² in three or more coats
Consumption for crack isolation ANSI A 118.12 on X-Floor / X-Floor Pro screeds and cementitious screeds	1.9 kg/m ² in three or more coats

Substrate preparation

In accordance with Standard UNI 11493-1, concrete, cement and gypsum-based substrates and coverings must be adequately cured and show no signs of excessive humidity, condensate, efflorescence or hydrostatic problems.

The substrates must be mechanically resistant and free of friable parts, and clear of grease, oils, paints, waxes and rising damp.

Cement plasters must have a curing time of at least one week per cm of thickness.

For surfaces frequently exposed to water, such as balconies, terraces, and shower floors, check that the slopes and drainage system sizing are adequate to allow for proper water runoff, considering the exposed surface area and maximum wetting conditions expected.

Generally, a slope of 1-1.5% is sufficient to guarantee the correct outflow of water. Cementitious substrates can be evened or sloped using the quick-setting, anti-shrink structural levelling compound, HydroLevel® 1-30.

On porous substrates such as cementitious screeds and skim coats or those made with HydroLevel® 1-30, and lightweight panels superficially coated with reinforced cementitious skim coats, apply a primer coat of SafetyGel® diluted with water by 10-20% using a roller or brush. This application seals the surface porosities of the substrate, preventing the appearance of any micro-bubbles during the application of the subsequent first coat of SafetyGel® after approximately 30 minutes.

Cementitious screeds must have a total curing period of at least 28 days or be made with the innovative anti-fracture screeds, X-Floor® and X-Floor® Pro.

Create slopes on balconies or pavements with the levelling compound HydroLevel® 1-30.

Particularly dusty, porous and absorbent substrates can be treated with X-Prime®, an innovative primer and consolidating product.

Smooth and compact substrates, such as old ceramic or marble tiles, must be treated with the specific detergent X-Cleaner® Scrub.

In anhydrite screeds, check for the presence of a suitable vapour barrier in order to prevent rising damp.

Use a carbide hygrometer to check that the residual humidity is less than 0.5% and 0.3% for heating screeds.

Any cracks or fissures must be sealed with CrackRepair.

In any case, the respective technical data sheets must be consulted for the correct use of the indicated products.

Application

Watertight Gel safety membrane

On porous substrates, apply a primer coat of SafetyGel® diluted with water by 10-20%.

To ensure total impermeability, start the waterproofing cycle by uniformly applying SafetyGel® with an appropriate brush to the most critical perimeter points such as corners, edges, wall-floor and wall-wall connections, and any micro-cracks present in the substrate.

This operation requires the utmost care and attention from the professional applicator, who can thus avoid the risks associated with using tapes, strips and special pieces—typical vulnerable points in waterproofing systems.

Next, apply the first coat of SafetyGel® evenly directly onto the substrate using a long-pile acrylic roller, brush, smooth steel trowel or airless sprayer, for a constant thickness of approximately 0.5 mm, taking care to cover the entire surface to be waterproofed, overlapping the product previously applied in corners and edges to ensure the perfect continuity and seal of the membrane.

SafetyGel® is dry when it turns dark purple: the typical drying time is about 2 hours, although this can vary depending on the conditions of the construction site, such as temperature, ambient humidity and ventilation.

Once the first dark purple coat is perfectly dry, uniformly apply a second coat of SafetyGel® for a constant thickness of approximately 0.5 mm, making

sure that the entire waterproofed surface is covered.

The distinct light purple colour of the fresh product helps the professional installer verify the complete coverage of the first coat, creating a total uniform thickness of about 0.8-1 mm.

To ensure a perfect connection with the waterproofing membrane in the presence of system penetrations such as pipes, drains and light fixtures, use the special sealing pieces HydroCollar or HydroDrain, which will be positioned and embedded in the first coat of SafetyGel® and subsequently covered with the second coat.

As an alternative to using the special HydroCollar or HydroDrain sealing elements, it is possible to connect the through-body of systems and SafetyGel® with the specific sealant for underwater applications, HydroPixel®.

The professional applicator will create a recess approximately 3-4 mm wide around the through-body and, after cleaning the surfaces, will apply HydroPixel®, creating a continuous connecting tubing between the through-body and the surface of SafetyGel®, taking care to press firmly and finish the surface by smoothing it to ensure complete filling and perfect adhesion.

To the application of SafetyGel® on open joints or edges, use SafetyTex Anti-Fracture 20 as a backing.

Consult the Technical Data Sheets of the products indicated before use.

High adhesion, anti-fracture Gel safety membrane

On porous substrates, apply a primer coat of SafetyGel® diluted with water by 10-20%.

To ensure isolation, prevent crack formation in tiles, and dissipate stresses to the substrate, uniformly apply the first coat of pure SafetyGel® directly onto the substrate using a long-pile acrylic roller, brush or smooth steel trowel to a constant thickness of approximately 0.5 mm, over any dry diluted coat.

SafetyGel® is dry when it turns dark purple: the typical drying time is about 2 hours, although this can vary depending on the conditions of the construction site, such as temperature, ambient humidity and ventilation.

Apply a second coat of SafetyGel® evenly for a constant thickness of about 0.5 mm, taking care to cover the entire surface, then repeat the operations for the third coat.

The distinct light purple colour of the fresh product helps the professional installer verify the complete coverage of the first coat, creating a continuous, high-resistance elastic layer with a total uniform thickness of about 1.2-1.5 mm.

To ensure crack isolation in outdoor tiles and to dissipate stresses transmitted by substrate movement joints both indoors and outdoors, reinforce the first pure coat of SafetyGel® with SafetyTex Anti-Fracture: apply the fabric onto the fresh Gel membrane and smooth it with a dry roller to avoid creases and bubbles.

SafetyGel® works in adhesion and develops high tensile bond strength, ensuring high performance in the Interfacial Transition Zone (ITZ) and significantly contributing to the mechanical efficiency of the composite system.

Covering installation

Coverings can be installed after at least 2 hours have passed since the last coat in standard conditions.

The installation of ceramic tiles, natural stones or mosaics will be carried out with ultra-high performance science-based Gels by Litokol, PowerGel® S1+ or PowerGel® S2+, which ensure the complete transfer of forces, continuous system performance and total safety.

To ensure the perfect adhesion of the adhesive Gel to the SafetyGel® elastic anti-fracture waterproofing membrane, apply a scratch coat of the mixture using the smooth side of the trowel, and then straight after apply the desired thickness with the notched side.

In accordance with Standard UNI 11493-1, use the back-buttering technique, applying the Gel also on the back of the tiles to ensure complete wetting during installation in environments where the substrate might be subject to movements or expansion, outdoors, in swimming pools or in particularly stressed areas.

In accordance with Standard UNI 11493-1, the tiles must be installed with joint widths suitable for their size (at least 2 mm).

For grouting in swimming pools, outdoors, in humid environments and in the Litokol High Adhesion Anti-Fracture System - TileSafe System, it is recommended to use Starlike® Pro or Starlike® Easy.

Respect any control or structural joints and create adequate expansion, separation and perimeter joints.

Warnings

Due to its high content of adhesive polymers, it is advisable to wash tools and any product residues from the surfaces with water before the Gel hardens. Once the reaction is complete and the Gel has hardened, it can only be removed mechanically.

Safety information

For the safe use of our products, refer to the latest version of the Safety Data Sheet, available on the website www.litokol.com

PRODUCT FOR PROFESSIONAL USE

Legal notes

The information and provisions contained in this technical data sheet reflect our best experience.

Given the impossibility of directly intervening on the conditions of the work site and execution of the works, they represent indications of a general nature, which are in no way binding for our Company.

It is therefore recommended to perform a spot test in order to check the suitability of the product for the intended use. In any case, those who intend to use the product must establish whether or not it is suitable for the intended use, and in any case assume all liability for any consequences resulting from such use.

Always refer to the latest updated version of the Technical Data Sheet, available on the website www.litokol.com

Item specification

Continuous watertight Gel safety membrane

The waterproofing of swimming pools, tanks, fountains, terraces, balconies, showers, SPAs, Hammams and wet rooms, where the subsequent installation of ceramic and porcelain tiles, natural stones and mosaics is envisaged, must be carried out using a ready-to-use, fast-drying, continuous elastic, watertight, and anti-fracture Gel membrane (rainproof in 2 hours), which does not require reinforcement mesh, tapes or perimeter strips, classified as DM 02 P according to Standard EN 14891, such as SafetyGel® by Litokol Lab SpA.

Continuous anti-fracture Gel safety membrane and High Adhesion Anti-Fracture System - TileSafe System

The isolation, crack prevention and homogeneous load dissipation in floors covered with ceramic and porcelain tiles and natural stones must be carried out with a ready-to-use continuous elastic anti-fracture Gel membrane, classified as DM 02 P according to Standard EN 14891, such as SafetyGel® by Litokol Lab SpA.

When combined with a fourth-generation tri-polymeric elastic anti-fracture Smart Gel, enhanced with quartz microspheres, Anti-Fatigue Fluidotixo®, with a low cement content, which prevents the formation of cracks in the installation of tiles, porcelain stoneware of all types and formats and natural stones, classified as C2 TE S1 according to Standard EN 12004, such as PowerGel® S1+ by Litokol Lab SpA, it forms the High Adhesion Anti-Fracture System - TileSafe System.

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