SafetyTex Anti-Fracture
Technical specifications

Anti-fracture non-woven fabric made of thermo-modified needle-punched polyester for the structural reinforcement of the SafetyGel Gel membrane in the Litokol High Adhesion Anti-Fracture System

Product description

Anti-fracture non-woven fabric made of thermo-modified needle-punched polyester, free from chemical binders, for the structural reinforcement of the continuous, watertight, anti-fracture elastic Gel membrane, SafetyGel.
It is easily incorporated during the application of the first coat of the Gel membrane by roller, brush, smooth steel trowel or airless sprayer, increasing the anti-fracture properties even on outdoor movement joints.

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

Adhesive - skimming plaster
Floors - walls
Interiors - exteriors
Overlaying
Underfloor heating systems
Indoor wet areas - bathrooms and showers
Tanks, swimming pools, fountains
Terraces and balconies
SPA and Hammam
Façades
Industrial floors
Residential, public, commercial and street furniture
Areas subject to high traffic and high stress

In combination with SafetyGel® and SafetyTex Anti-Fracture
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 control joints

Limitations

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
Width	100 cm
Weight	100 g/m^2
Thickness	0.70 mm
Shelf life	Unlimited in original packaging protected from sunlight
Customs code	XXXXXXXX TO BE DEFINED

Technical specifications

Compliance	EN 14891	DM 02 P
Longitudinal tensile strength	180 N / 5 cm	+/- 18
Transverse tensile strength	110 N / 5 cm	+/- 11
Longitudinal elongation at break	30%	+/- 9
Transversal elongation at break	90%	+/- 27

Compliance	ANSI A118.12	
Mould growth	The membrane does not support mould growth	4.1
Shear strength on ceramic and porcelain tiles and adhesive	Shear strength on ceramic and porcelain tiles and adhesive	5.1
7-Day shear strength	≥ 50 psi	5.1.3
Initial adhesion after 7 days	≥ 50 psi	5.1.4
Initial adhesion after 28 days	≥ 50 psi	5.1.5
Adhesion after thermal ageing	≥ 50 psi	5.1.6
Point load test	≥ 1000 lbf	5.2

Consumption on concrete, gypsum, ceramic and porcelain tiles, natural stone, mosaics, fibre cement panels, wood panels	1.0 kg/m

	in two coats
Consumption on HydroLevel / ProLevel skim coats, cementitious skim coats and lightweight panels with cementitious skim coats	1.3 kg/m^2 in two coats
Consumption on X-Floor / X-Floor Pro screeds and cementitious screeds	1.5 kg/m^2 in three 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®.

On porous substrates such as cementitious screeds and skim coats or those made with HydroLevel®, 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®. 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 correct use of the indicated products.

Application

Cut the SafetyTex Antifracture to size 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 about 0.5 mm, taking care to cover the entire surface to be waterproofed, and then apply the fabric. Smooth the fabric with an unloaded roller to prevent or remove any creases or air bubbles. Cover with the second coat of SafetyGel.

Warnings

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

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

The isolation, crack prevention and homogeneous load dissipation in outdoor paving covered with ceramic and porcelain tiles and natural stones must be carried out by reinforcing the 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, with a thermo-modified needle-punched polyester anti-fracture non-woven fabric such as SafetyText Anti-Fracture by Litokol Lab SpA.
When combined with a tri-polymeric elastic anti-fracture Smart Gel (4th generation), enhanced with quartz microspheres, Fluidotixo® and 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 Litokol High Adhesion Anti-Fracture System.

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