
SafetyTex Anti-Fracture

Technical Specifications



Thermally modified needle-punched polyester anti-fracture non-woven fabric for the structural reinforcement of the SafetyGel gel membrane in the Litokol High-Adhesion Anti-Fracture System

Product description

Thermally modified, needle-punched polyester anti-fracture non-woven fabric, free from chemical binders, for the structural reinforcement of the continuous, watertight and anti-fracture SafetyGel elastic membrane. It blends easily during application by roller, brush, smooth steel trowel or airless spray of the first coat of gel membrane, enhancing the crack-resistant properties even on external movement joints.

Substrates

Screeds
Self-levelling compounds
Levelling Compounds
Plaster and skim coats
Existing tiles
Radiant heating systems
Concrete and reinforced concrete
Plasterboard
Plaster and anhydrite
Fibre-cement sheets
Wood and engineered wood panels
Metals
Plastics and PVC
Fibreglass
Lightweight panels
Existing cement-polymer waterproofing products

Uses

Adhesive – levelling compound
Floors – walls
Interior – exterior
Overlay
Radiant heating systems
Indoor wet areas – bathrooms and showers
Ponds, swimming pools and fountains
Terraces and balconies
SPA and Hammam
Facades
Industrial flooring
Residential, public, commercial and street furniture
Areas subject to heavy footfall and high stress

In combination with SafetyGel® and SafetyTex Anti-Fracture

Cracked substrates
New, uncured substrates or substrates of a different nature
Change to a different laying pattern or tile size
Installation near thresholds
Installation over utility trenches
Installation near partition joints

Limitations

Product specifications

Composition	Single-component elastomeric gel
Appearance	Fluid thixotropic gel
Colour	Magenta violet
Responsible packaging	Second-life recycled plastic buckets, 5, 10 and 20 kg
Width	100 cm
Weight	100 g/m ²
Thickness	0.70 mm
Shelf life	Unlimited in the original packaging, protected from direct sunlight
Customs heading	XXXXXXXX TO BE DETERMINED

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
Transverse elongation at break	90%	+/- 27

Compliance	ANSI A118.12	
Mould growth	The membrane does not support the growth of mould	4.1
Shear strength on ceramic tiles and cementitious adhesive	Shear strength on ceramic tiles and cementitious adhesive	5.1
7-day shear strength	≥ 50 psi	5.1.3
Initial adhesion after 7 days	≥ 50 psi	5.1.4
Initial bond strength after 28 days	≥ 50 psi	5.1.5
Adhesion after thermal ageing	≥ 50 psi	5.1.6

Coverage on concrete, plasterboard, ceramic tiles, natural stone, mosaics, fibre-cement panels and timber panels 1.0 kg/m² in two coats

Coverage on HydroLevel / ProLevel skim coats, cementitious skim coats and lightweight panels with cementitious skim coat 1.3 kg/m² in two coats

Coverage on X-Floor / X-Floor Pro screeds and cementitious screeds 1.5 kg/m² in three coats

Preparation of substrates

In accordance with standard UNI 11493-1, substrates and coatings based on concrete, cement and plaster must be adequately cured and must not show signs of excessive moisture emission, condensation, efflorescence or hydrostatic problems. Substrates must be mechanically sound and free from loose particles, grease, oil, paint, wax and rising damp. Cement-based plasters must be allowed to cure for at least one week per centimetre of thickness. For surfaces frequently exposed to contact with water, such as balconies, terraces and shower floors, check that the gradients and the size of the drainage systems are adequate to allow proper water runoff, taking into account the size of the exposed surface and the maximum expected wetting conditions. Generally, a gradient of 1–1.5% is sufficient to ensure proper water drainage. Any levelling of cementitious substrates or the creation of gradients can be carried out using the fast-setting, non-shrink structural levelling compound HydroLevel®.

On porous substrates such as screeds and cementitious skim coats, or those made with HydroLevel®, and lightweight panels with a surface finish of reinforced cementitious skim coats, apply one coat of SafetyGel® primer, diluted with water by 10–20 per cent, using a roller or brush. This application seals any surface porosity in the substrate, preventing the formation of any micro-bubbles when the subsequent first coat of SafetyGel® is applied after approximately 30 minutes. Cement-based screeds must have a total curing time of at least 28 days or be laid using the innovative X-Floor® and X-Floor® Pro anti-crack screeds. Create slopes on balconies or pavements using the HydroLevel® levelling compound. Dusty, porous and absorbent substrates can be treated with X-Prime®, an innovative fixative and consolidant. Smooth, compact substrates, such as old ceramic tiles or terrazzo, must be treated with the specific detergent X-Cleaner® Scrub. In the case of anhydrite screeds, ensure that a suitable vapour barrier is in place to prevent any rising damp. Check using a carbide hygrometer that the residual moisture content is less than 0.5% and 0.3% for underfloor 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 Anti-Fracture 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 to a consistent thickness of approximately 0.5 mm, taking care to cover the entire surface to be waterproofed, and apply the fabric. Smooth the fabric with the unloaded roller to prevent or remove any creases or air bubbles. Apply a second coat of SafetyGel.

Warnings

Do not use for applications not listed on this technical data sheet
For further information, please contact Litokol's Technical Customer Service
on +39-0522-622811 or via customer@litokol.com

Safety Information

For the safe use of our products, please refer to the latest version of the
Safety Data Sheet, available at www.litokol.com
PRODUCT FOR PROFESSIONAL USE

Legal notices

The information and specifications set out in this technical data sheet are
based on our best experience. However, as we are unable to directly
influence site conditions or the execution of the works, these are general
guidelines which do not in any way bind our Company. We therefore
recommend carrying out a preliminary test to verify the product's suitability
for the intended use; in any case, anyone intending to use it is required to
determine whether or not it is suitable for the intended use and, in any event,
assumes all liability that may arise from its use. Always refer to the latest
updated version of the Technical Data Sheet, available on the website
www.litokol.com

Specification item

Insulation, crack prevention and the uniform distribution of loads in outdoor
flooring covered with ceramic tiles and natural stone must be achieved by
reinforcing the continuous, ready-to-use, anti-fracture gel elastic membrane,
classified as DM 02 P in accordance with standard EN 14891, such as
SafetyGel® by Litokol Lab SpA, with a thermally modified needle-punched
polyester anti-fracture non-woven fabric such as SafetyText Anti-Fracture by
Litokol Lab SpA.

Combined with a tri-polymeric (4th generation) elastic, anti-crack Smart Gel,
enhanced with quartz microspheres, Fluidotix, with a low cement content,
which prevents the formation of cracks when laying tiles, porcelain
stoneware of all types and sizes and natural stone, classified as C2 TE S1 in
accordance with standard EN 12004, the PowerGel® S1+ type from Litokol
Lab SpA forms the Litokol High-Adhesion Anti-Crack System.

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