



# HIDROFLEX

## ELASTIC WATERPROOFING MEMBRANE FOR INTERIORS

### DESCRIPTION

Ready-to-use, ready-mixed, solvent-free paste based on synthetic resins in aqueous dispersion and aggregate of selected particle size. When dried, the product has very high elasticity, which it maintains from -20°C to +100°C. It is capable of withstanding any structural movement caused by temperature variations or vibrations and is excellent at withstanding the washing-out action of water. Since the paste is thixotropic, it is suitable for use on vertical surfaces. The product is type tested by the Swedish Testing and Research Institute SP (conforming to Per sector standards) and by the Finnish VTT Institute (Cert. No. C214/02).

### FIELDS OF APPLICATION

Suitable for waterproofing interior floors and walls. Typical applications include:

- Waterproofing of substrates of various kinds (such as cementitious screeds, cementitious or gypsum-based plaster, gypsum board and wood panels, concrete) in bathrooms and showers before installing tiles.
- Waterproofing of surfaces in kitchens or worktops prior to tile installation.
- Anti-crack elastic membrane to be applied prior to tile installation to prevent cracks from propagating to the surface.

### SUBSTRATE PREPARATION

Surfaces to be treated must be solid, clean and free of loose material, grease, oil or anything else that could prevent proper adhesion. They must also be dry and not subject to rising damp. All traces of paint must be removed mechanically. In the case of gypsum-based substrates, use a hygrometer to check that the residual moisture content of the substrate is no greater than 0.5%. Anhydrite screeds must be sanded prior to application. Absorbent substrates must be pre-treated with one or two coats of PRIMER F (if necessary thinned with water depending on the absorption of the substrate), which must be applied using a roller or brush in a quantity of about 300 g/m<sup>2</sup>. After a drying time of about 20 minutes at T= +23°C, the waterproof membrane can be applied.

### APPLICATION

#### WATERPROOF MEMBRANE

Apply directly to the substrate (after treatment with PRIMER F) using a brush, roller or smooth trowel. It is advisable to apply two crossed coats one after the other with a total consumption of 1.3 kg/m<sup>2</sup>. The second coat must be applied after the first has dried (about 2 hours at T=+23°C). The two coats must form a minimum thickness of 1 mm.

To ensure a perfect seal and waterproofing, insert LITOBAND sealing tape complete with special pieces and corners (see technical sheet) at the joints between walls, between floors and walls, and around drains and pipes.

Insert the LITOBAND sealant tape between the first and second coats of waterproofing membrane so that it is completely embedded in the membrane.

For further information on application, refer to the brochure entitled "Litokol Wet Areas System", which can be supplied on request.

#### ANTI-CRACK ELASTIC MEMBRANE

The cracks (maximum width 4 mm) must be cleaned of dust and loose material mechanically or using compressed air. Apply with a smooth trowel, pressing the product into the cracks so as to fill them completely. Then apply a layer at least 2 mm thick so as to form a band about 15 cm wider than the tile. If dynamic cracks are present, it is advisable to embed an anti-alkaline fibreglass net in the membrane layer. After drying, proceed to install the tiles using elastic cementitious adhesives (class C2-S2 in accordance with standard EN 12004).

### LAYING THE TILES

Before laying the tiles, wait at least 24 hours after applying the second coat of waterproofing membrane. We recommend using class C2 or C2F (fast) cementitious adhesives in accordance with standard EN 12004. Refer to the technical sheets for the adhesives and the application chart to choose the correct adhesive for the tile size.

**CAUTIONS**

- Prior to application, use a hygrometer to check that the residual moisture content of the substrate is no greater than 0.5% in the case of gypsum-based substrates.
- The thickness of applied product must be no less than 1 mm.
- Protect the waterproofing membrane from water for at least 24 hours after application.
- Do not apply to substrates subject to rising damp.
- Do not use outdoors or in permanently wet areas such as tanks, swimming pools, etc. In these cases use ELASTOCEM.
- For waterproofing non-porous substrates such as ceramic tiles or cementitious surfaces with low absorbency, use ELASTOCEM.
- Apply at temperatures of between +5°C and +40°C.
- The product's drying time depends on the ambient temperature. Lower temperatures lengthen drying time, higher temperatures shorten it.
- Before installing tiles, wait at least 24 hours for the product to dry completely and use class C2 or C2F (fast) cementitious adhesives in accordance with standard EN 12004.
- Do not use for applications not stated on this technical sheet.
- For further information, ask for the brochure entitled "Litokol Wet Areas System".
- Since the product is in aqueous dispersion, it is susceptible to frost damage. Transport and store the product at temperatures no lower than +5°C.
- Do not keep product contained in the cans in direct sunlight or in very hot areas.

**IDENTIFICATION DATA**

Appearance	Flowable paste
Colour	Green
Solids content	72-78%
Viscosity	41,000-47,000 mPa s
Customs code	4002 1100
Shelf life	12 months in original packaging. Susceptible to frost damage.

**APPLICATION DATA**

Application	Roller, brush, smooth trowel
Application temperature	From +5°C to +40°C
Drying time	About 2 hours at T= +23°C
Time before installing ceramic tiles (T=+23°C)	24 hours
Adhesives recommended for installing ceramic tiles	Class C2 or C2F (EN 12004) cementitious adhesives
Consumption	1.3 kg/m <sup>2</sup>

**PERFORMANCE**

Flexibility	Excellent
Impermeability to water 100 mm H <sub>2</sub> O/14 days (EN 1928)	Resistant
Impermeability to alkalis (saturated solution of Ca(OH) <sub>2</sub> for 56 days with a level of 50 mm)	Resistant
Crack bridging ability after alkaline treatment (prEN 1062-7 amended)	> 1.5 mm
Permeability to water vapour (DIN 52615) on plasterboard	PRIMER F + HIDROFLEX system = 5.10 <sup>-12</sup> kg/(m <sup>2</sup> sPa)
Resistance to solvents, acids, oils	Fair
Temperature of use	From -30°C to +100°C

**PACKAGING**

<b>10 kg buckets</b>	<b>Standard pallet 750 kg</b>
<b>20 kg buckets</b>	<b>Standard pallet 720 kg</b>
<b>25 kg buckets</b>	<b>Standard pallet 675 kg</b>

Although the information provided on this technical sheet is accurate to the best of our knowledge and experience, it is intended purely as a guideline. The user must carry out preliminary practical tests for each specific job and is solely responsible for the final result.

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