

# ISOFLEX-T25

## Brushable elastomeric waterproofing liquid membrane for flat roofs

### Description

ISOFLEX-T25 is a brushable, solvent-free, elastomeric, waterproofing liquid membrane for flat roofs. It shows high elasticity and durability even to extreme temperature conditions. It offers:

- Continuous, elastic, waterproof, vapor-permeable sealing layer, without forming seams or joints.
- Excellent bonding to various substrates like concrete, wood, metal and any type of waterproofing membranes.
- High weather resistance and durability.
- High whiteness and solar reflectance.
- Improvement of energy performance of the building by decreasing the roof temperature.
- Application possibility also to uneven substrates.

It is certified with the CE marking as a coating for surface protection of concrete, according to EN 1504-2. Certificate Nr. 2032-CPR-10.11.

### Fields of application

ISOFLEX-T25 is ideal for the waterproofing of flat roofs, balconies, etc. It is also a simple and safe solution for difficult areas (corners, edges, joints between adjacent different materials) and for isolated sealing of cracks. Furthermore, it can be used as cool roof paint due to its high solar reflectance.

### Technical data

Colors: white, redbrown  
 Density: 1.44 kg/l ± 0.02 kg/l  
 Elongation at break: > 400%  
 (ASTM D 412)  
 Permeability to CO<sub>2</sub>: Sd > 50 m  
 (EN 1062-6)

Capillary absorption: 0.03 kg/m<sup>2</sup>·h<sup>0.5</sup>  
 (EN 1062-3, requirement of EN 1504-2: w < 0.1)  
 Water vapor permeability: Sd=0.84m (permeable)  
 (EN ISO 7783-2, Class I < 5m)  
 Adhesion strength: 1.4 N/mm<sup>2</sup>  
 (EN 1542, requirement for flexible systems without trafficking: 0.8 N/mm<sup>2</sup>)  
 Artificial weathering: Pass (no blistering, cracking or flaking)  
 (EN 1062-11, after 2000 h)  
 Reaction to fire: Euroclass F  
 (EN 13501-1)  
 Viscosity: ≈ 50.000 mPa·s  
 (EN ISO 2884-2)  
 Solar reflectance: 89%  
 (ISOFLEX-T25 white)  
 (ASTM E903-96)  
 Infrared thermal emittance : ε = 0.90  
 (ISOFLEX-T25 white)  
 (ASTM E408-71)  
 Minimum application temperature: +5°C  
 Temperature resistance: from -25°C to +80°C  
 Resistance to temporary exposure: from -25°C to +120°C  
 Drying time at +20°C: 3 h (in touch)  
 (EN ISO 2811-1)  
 Recoat time at +20°C: 20 h (in touch)  
 (EN ISO 2811-1)

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## Directions for use

### 1. Substrate preparation

The substrate must be dry, clean, free of grease, loose particles, dust, etc. Any existing cavities in concrete should be repaired in advance. The substrate is then primed with the special primer ISO-PRIMER at a consumption of approx. 200 g/m<sup>2</sup>.

### 2. Application

#### a) Total waterproofing of the surface

ISOFLEX-T25 is applied by brush or roller in 2 layers, after the primer has dried. The second layer should be applied crosswise after the first one has dried.

In areas of severe cracks, it is recommended to reinforce ISOFLEX-T25 with a 10cm wide fiberglass mesh tape (65 g/m<sup>2</sup>) or polyester-fiber tape (30 g/m<sup>2</sup>) along the cracks. In detail, after the primer has dried, the first layer of ISOFLEX-T25 is applied along the cracks and, while still fresh, the 10cm wide fiberglass mesh or polyester-fiber tape is embedded lengthwise. Then, two more layers of ISOFLEX-T25 are applied over the entire surface.

Consumption: 1.0-1.5 kg/m<sup>2</sup>, depending on the substrate.

In case of dense, multiple cracks appearing all over the surface, it is strongly recommended to thoroughly reinforce ISOFLEX-T25 membrane with 100cm wide strips of fiberglass mesh (65 g/m<sup>2</sup>) or polyester-fiber (30 g/m<sup>2</sup>). The placed strips shall overlap one another by 5-10 cm.

In detail, after the primer has dried, a first layer of ISOFLEX-T25 is applied as wide as the upcoming reinforcement, and, while still fresh, a strip of fiberglass mesh or polyester-fiber is embedded. The same application procedure is followed over the remaining surface. Two extra layers of ISOFLEX-T25 are applied over the entire surface.

Consumption: approximately 2.0-2.5 kg/m<sup>2</sup>, depending on the substrate and the type of reinforcement.

#### b) Local waterproofing of cracks

In this case, the primer is placed to the substrate only across the cracks at a width of 10-12 cm. After the primer has dried, first ISOFLEX-T25 layer is applied and, while still fresh, a 10cm wide fiberglass mesh (65 g/m<sup>2</sup>) or polyester-fiber tape (30 g/m<sup>2</sup>) is embedded lengthwise. Two additional ISOFLEX-T25 layers are applied along the cracks, completely covering the reinforcement.

Consumption: approximately 200-250 g/m of crack's length.

Tools should be cleaned with water, while ISOFLEX-T25 is still fresh.

## Packaging

ISOFLEX-T25 is available in 1 kg, 5 kg, 15 kg, 25 kg plastic containers and in 150 kg drums.

## Shelf-life - Storage

24 months from production date, if stored in original, unopened packaging, at temperatures between +5°C and +35°C. Protect from direct sun exposure and frost.

## Volatile Organic Compounds (VOCs)

According to the Directive 2004/42/CE (Annex II, table A), the maximum allowed VOC content for the product subcategory i, type WB is 140 g/l (2010) for the ready-to-use product. The ready-to-use product ISOFLEX-T25 contains 3,86 g/l VOC.

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2032

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2032-CPR-10.11

EN 1504-2

Surface protection products

Coating

Permeability to CO<sub>2</sub>: Sd > 50m

Water vapor permeability: Class I  
(permeable)

Capillary absorption:  $w < 0.1 \text{ kg/m}^2 \cdot \text{h}^{0.5}$

Adhesion strength:  $\geq 0.8 \text{ N/mm}^2$

Artificial weathering: Pass

Reaction to fire: Euroclass F

Dangerous substances comply with 5.3

**ISOMAT S.A.**

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