

# ISOFLEX AEGEAN

## Hybrid, brushable elastomeric waterproofing liquid membrane for flat roofs, with timeless whiteness

### Description

Hybrid, brushable, elastomeric, waterproofing liquid membrane for flat roofs, which provides:

- A continuous, elastic, waterproof, vapor-permeable sealing layer, without seams or joints.
- Excellent bonding to various substrates like concrete, wood, metal and any type of waterproofing membranes.
- High elasticity.
- High weather resistance and durability.
- High whiteness and solar reflectance, which last for years.
- Improvement of energy performance of the building by decreasing the roof temperature.
- Resistance to ponding water.
- Application is possible even on irregular 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

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

### Technical data

Colors:	white
Density:	1.39 ± 0.02 kg/l
Elongation at break: (ASTM D 412)	350%

Capillary water absorption: (EN 1062-3, requirement of EN 1504-2: $w < 0.1 \text{ kg/m}^2 \cdot \text{h}^{0.5}$ )	0.01 $\text{kg/m}^2 \cdot \text{h}^{0.5}$
Water vapor permeability: (EN ISO 7783-2, vapor permeable Class I, $S_d < 5 \text{ m}$ )	$S_d = 0.40 \text{ m}$
Adhesion strength: (EN 1542, requirement for flexible systems without trafficking: $0.8 \text{ N/mm}^2$ )	2,9 $\text{N/mm}^2$
Artificial weathering: (EN 1062-11, after 2000 h)	Pass (no blistering, cracking or flaking)
Reaction to fire: (EN 13501-1)	Euroclass F
Minimum application temperature:	+5°C
Temperature resistance:	from -25°C to +80°C
Viscosity: (EN ISO 2884-2)	≈ 30,000 mPa·s
Drying time at +20°C: (EN ISO 2811-1)	2 h (in touch)
Recoat time at +20°C: (EN ISO 2811-1)	20 h (in touch)

### 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>.

# ISOFLEX AEGEAN

## 2. Application - Consumption

### a) Total waterproofing of the surface

As soon as the primer has dried, ISOFLEX AEGEAN is applied by brush or roller either in two layers at a consumption of 0.5-0.75 kg/m<sup>2</sup>/layer, depending on the substrate. The second layer should be applied crosswise, after the first one has dried and can be walked on.

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

In case of dense, multiple cracks appearing all over the surface, it is strongly recommended to thoroughly reinforce ISOFLEX AEGEAN membrane with 100cm wide strips of fiberglass mesh (65 g/m<sup>2</sup>) or polyester fleece (30 g/m<sup>2</sup>). The placed strips shall overlap one another by 5-10 cm. In this case, after the primer has dried, a layer of ISOFLEX AEGEAN is applied as wide as the upcoming reinforcement, and, while still fresh, a strip of fiberglass mesh or polyester fleece is embedded. The same application procedure is followed over the remaining surface. Subsequently, two extra layers of ISOFLEX AEGEAN 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 substrate is primed only across the cracks at a width of 10-12 cm. After the primer has dried, a layer of ISOFLEX AEGEAN is applied and, while still fresh, a 10 cm wide fiberglass-mesh (65 g/m<sup>2</sup>) or polyester fleece (30 g/m<sup>2</sup>) is embedded lengthwise. Subsequently, two extra ISOFLEX AEGEAN layers are applied along the cracks, completely covering the reinforcement.

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

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

### Packaging

ISOFLEX AEGEAN is available in 1 kg, 4 kg, 13 kg and 25 kg containers.

### Shelf-life - Storage

24 months from production date if stored in original, unopened packaging, in temperature 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 AEGEAN contains 4.21 g/l VOC.

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2032

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DoP No.: ISOFLEX AEGEAN / 1436-02

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

Artificial weathering: Passes

Reaction to fire: Euroclass F

Dangerous substances comply with 5.3

**ISOMAT S.A.**

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