Technical Datasheet

ISOFLEX

Elastomeric, liquid waterproofing membrane for flat roofs

Description

ISOFLEX is an elastomeric, water-based, liquid waterproofing membrane for flat roofs. Has excellent bonding to various substrates, such as concrete, wood, metal and any type of waterproofing membranes and is applicable even to irregular substrates. After curing, it forms a continuous, elastic, waterproof and vapor-permeable membrane, without seams or joints, offering:

- High elasticity.
- High resistance to weather conditions and aging.
- High whiteness and solar reflectance.
- Improvement of building energy efficiency by decreasing the roof temperature.

ISOFLEX (white) has been successfully tested by a third-party laboratory for its high solar reflectance, which improves building energy efficiency and, in turn, reduces cooling costs, making it an ideal solution for cool roofs.
Certified according to EN 1504-2 and classified as a coating for surface protection of concrete. CE marked. Certificate No.: 2032-CPR-10.11.

Fields of application

ISOFLEX is ideal for waterproofing flat roofs, curved roofs, etc. Constitutes a simple and safe waterproofing solution for roof details, such as corners, edges and joints between different adjacent materials, as well as for isolated cracks.
Furthermore, thanks to its high solar reflectance, it can be used as cool roof paint.

Technical data

Colors:	white, red-brown
Hardness according to SHORE A:	50
Density:	1.41 kg/l ± 0.02 kg/l
Elongation at break: (EN ISO 527)	600 ± 50%
Capillary absorption: (EN 1062-3, requirement of EN 1504-2: w < 0.1)	0.01 kg/m^2·h$^{0.5}$
Permeability to CO_2: (EN 1062-6)	S_d > 50 m
Water vapor permeability: (EN ISO 7783-2, Class I < 5m)	S_d=0.80 m (permeable)
Adhesion: (EN 1542, requirement for flexible systems without trafficking: 0.8 N/mm^2)	1.3 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
Solar Reflectance (SR): (ASTM E903-96, ASTM G159-98)	90%
Infrared Emittance ε (±0,02): (ASTM E408-71)	0.86
Solar Reflectance Index (SRI): (ASTM G159-91)	114
Minimum application temperature:	+5°C
Service temperature:	from -15°C to +90°C
Viscosity:	~ 80,000 mPa·s
Drying time at +20°C: (EN ISO 2811-1)	3 h (touch dry)
Recoat time at +20°C: (EN ISO 2811-1)	24 h (touch dry)

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 filled in advance. The substrate can be primed with the special primer ISO-PRIMER with a consumption of approx. 200 g/m^2.

ISOFLEX

2. Application

a) Full-surface waterproofing

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

In areas with severe cracks, it is recommended to reinforce ISOFLEX with a 10 cm wide strip of fiberglass mesh (65 g/m^2) or polyester fleece (30 g/m^2) along the cracks. In that case, after the primer has dried, the first layer of ISOFLEX is applied along the cracks and, while still fresh, the 10 cm wide strip of fiberglass mesh or polyester fleece is embedded lengthwise.

Subsequently, two extra layers of ISOFLEX are applied over the entire surface.

Consumption: approx. 1.5 kg/m^2, depending on the substrate.

In case there are dense, multiple cracks all over the surface, it is strongly recommended to fully reinforce ISOFLEX membrane with 100 cm wide strips of fiberglass mesh (65 g/m^2) or polyester fleece (30 g/m^2). These placed strips must overlap by 5-10 cm.

After the primer has dried, a first layer of ISOFLEX is applied to a width of 100 cm (as wide as the upcoming reinforcement), and, while still fresh, a strip of fiberglass mesh or polyester fleece is embedded. The same application process is followed until the remaining surface is covered. Subsequently, two extra layers of ISOFLEX are applied over the entire surface.

Consumption: 2.0-2.5 kg/m^2, depending on the substrate and type of reinforcement.

b) Local waterproofing of cracks

In this case, the primer is applied on the substrate only along the cracks to a width of 10-12 cm. After the primer has dried, the first ISOFLEX layer is applied and, while still fresh, a 10 cm wide strip of fiberglass mesh (65 g/m^2) or polyester fleece (30 g/m^2) is embedded lengthwise.

Subsequently, two extra ISOFLEX layers are applied along the cracks, completely covering the reinforcement.

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

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

Packaging

ISOFLEX is supplied in plastic containers of 1 kg, 5 kg, 13 kg and 25 kg.

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 sunlight and frost.

Volatile Organic Compounds (VOCs)

According to 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 contains 1.66 g/l VOC.

The technical information and instructions supplied in this datasheet are based on the knowledge and experience of the Research and Development Department of our company and on results from long-term applications of the product in practice. The recommendations and suggestions referring to the use of the product are provided without guarantee, since site conditions during the applications are beyond the control of our company. Therefore the user is responsible for confirming that the chosen product is suitable for the envisaged application. The present edition of this technical datasheet automatically cancels any previous one concerning the same product. | Edition: 24.04.2026

ISOFLEX

CE

2032

ISOMAT S.A.
17th km Thessaloniki – Ag. Athanasios
P.O. BOX 1043, 570 03 Ag. Athanasios, Greece

12

2032-CPR-10.11

DoP No.: ISOFLEX / 1408-02

EN 1504-2

Surface protection products

Coating

Permeability to CO_2: Sd > 50m

Water vapor permeability: Class I (permeable)

Capillary absorption: w < 0.1 kg/m^2·h^{0,5}

Adhesion strength by pull off test: ≥ 1.0 N/mm^2

Artificial weathering: No visual defects

Reaction to fire: Euroclass F

Dangerous substances comply with 5.3

ISOMAT S.A.
BUILDING CHEMICALS, MORTARS & PAINTS
HEADQUARTERS – THESSALONIKI, GREECE
17th km Thessaloniki – Ag. Athanasios Road
P.O. BOX 1043, 570 03 Ag. Athanasios, Greece
T +30 2310 576000
www.isomat.eu e-mail: support@isomat.eu

The technical information and instructions supplied in this datasheet are based on the knowledge and experience of the Research and Development Department of our company and on results from long-term applications of the product in practice. The recommendations and suggestions referring to the use of the product are provided without guarantee, since site conditions during the applications are beyond the control of our company. Therefore the user is responsible for confirming that the chosen product is suitable for the envisaged application. The present edition of this technical datasheet automatically cancels any previous one concerning the same product. | Edition: 24.04.2026