

**absolute  
& durable  
waterproofing**



safe waterproofing



weather and  
UV resistant



ideal for  
waterproofing details

# ISOFLEX PU510

Polyurethane, waterproofing liquid  
membrane for flat roofs, balconies etc.

**White • Brushable • Elastomeric**



**isomat**  
building quality

## FIELDS OF APPLICATION

ISOFLEX-PU 510 is suitable for waterproofing exposed areas such as flat roofs or balconies. Also, it is suitable for waterproofing under tiles in bathrooms and kitchens, as long as quartz sand has been broadcasted on its final

layer. Furthermore, it can be used in foundations and under thermal insulation panels on roofs. It can also be applied for waterproofing old bituminous layers or EPDM membranes.

## DESCRIPTION

ISOFLEX-PU 510 is a one component brushable, polyurethane, waterproofing membrane, offering:

- Continuous, elastic, waterproof, vapor-permeable sealing layer, without forming seams or joints.
- Excellent bonding to various substrates like concrete, cement-mortars and to most types of

waterproofing membranes.

- Application possibility also to uneven substrates.
- Available white or colored. When a dark color of ISOFLEX-PU 510 has been chosen as an exposed layer, it is necessary to cover it with one layer of TOPCOAT-PU 720 of the same color.

## TECHNICAL DATA

Colors :	white, black
Density :	1.44 kg/l
Elongation at break :	(750±50)% (ASTM D 412)
Tensile strength :	4.0 N/mm <sup>2</sup> (ASTM D 412)
Hardness according to SHORE A :	80±2
Waterproofing :	5 atm (DIN 1048)
Temperature resistance :	from -20°C to +90°C

## DIRECTIONS FOR USE

### 1. Substrate

The substrate must be dry, clean, free of grease, loose particles, dust etc. Any existing cavities in concrete should be repaired in advance. Porous surfaces should be treated with the special primer PRIMER-PU 100, with a consumption of approx. 200 g/m<sup>2</sup>.

### 2. Application - Consumption

Before the application it is recommended to slightly stir ISOFLEX-PU 510, until it becomes homogenous. Extensive stirring should be avoided, in order to prevent air entrapment in the material.

#### a) Total sealing of the surface

ISOFLEX-PU 510 is applied by brush or roller in 2 layers. The first layer is applied 2-3 hours after priming and while PRIMER-PU 100 is still tacky. The second layer should follow crosswise after 8-24 hours depending on the weather conditions. In case of dense, multiple cracks all over the surface, it is strongly recommended to reinforce thoroughly ISOFLEX-PU 510 membrane with 100 cm wide strips of polypropylene fiber tape (40 g/m<sup>2</sup>) or polyester-fleece (60 g/m<sup>2</sup>). The placed strips shall overlap one another by 5-10 cm. In detail, 2-3 hours after priming, a first layer of

ISOFLEX-PU 510 is applied as wide as the upcoming reinforcement, and, while still fresh, strip of fiberglass mesh or polyester-fiber is embedded.

The same application procedure follows over the remaining surface. Subsequently, two more layers of ISOFLEX-PU 510 are applied over the entire surface.

**Consumption:** 2.00-2.25 kg/m<sup>2</sup>, depending on substrate and type of reinforcement.

#### b) Local sealing of cracks

In this case, the primer is placed to the substrate only across the cracks at a width of 10-12 cm. 2-3 hours after priming, first ISOFLEX-PU 510 layer is applied and, while still fresh, a 10 cm wide polypropylene fiber tape (40 g/m<sup>2</sup>) or polyester-fleece (60 g/m<sup>2</sup>) is embedded lengthwise. Subsequently two more ISOFLEX-PU 510 layers are applied along the cracks covering completely the reinforcement.

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

#### c) Waterproofing under tiles

ISOFLEX-PU 510 is applied by brush or roller in 2 layers. ISOFLEX-PU 510 should be locally reinforced lengthwise across joints and wall-floor corners by embedding on its first layer while it is still fresh a 10 cm wide polypropylene fiber tape (40 g/m<sup>2</sup>) or polyester-fleece (60 g/m<sup>2</sup>).

After the application of the final layer and while it is still fresh, quartz sand with particle-size 0.3-0.8 mm must be broadcasted.

**Consumption of quartz sand:** approx. 3 kg/m<sup>2</sup>.

After hardening of ISOFLEX-PU 510, any loose grains should be removed using a vacuum cleaner.

Tiles should be fixed with a high performance polymer-modified tile adhesive like ISOMAT AK 22, ISOMAT AK 25, ISOMAT AK-ELASTIC, ISOMAT AK-MEGARAPID.

Tools should be cleaned with SM-16 solvent while ISOFLEX-PU 510 is still fresh.

## PACKAGING

ISOFLEX-PU 510 is supplied in tin buckets of 1 kg, 6 kg and 25 kg.

## SHELF-LIFE - STORAGE

12 months from date of production if stored in original sealed packaging, in areas protected from humidity and direct sun exposure. Recommended storage temperature between +5°C and +35°C.

## REMARKS

- In case of application by spraying it may be diluted, depending on the weather conditions up to 10%, only with the special solvent SM-16.
- ISOFLEX-PU 510 is not suitable for contact with chemical treated water of swimming pools.
- Temperature during the application and hardening of the product should be between +8°C and +35°C.
- The consumption of ISOFLEX-PU 510 should not exceed 750 g/m<sup>2</sup> per layer.
- Unsealed packages shall be used at once and cannot be restored.

CE

2032

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2032-CDP-10.11

DoP No.: ISOFLEX-PU 510/1811-01

**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 kg/m<sup>2</sup>·h<sup>0.5</sup>

Adhesion: ≥ 0.8 N/mm<sup>2</sup>

Artificial weathering: Pass

Reaction to fire: Euroclass F

Dangerous substances comply with 5.4



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## **ABSOLUTE WATERPROOFING EVEN IN THE MOST HARD CONDITIONS**

**ISOFLEX-PU 510** is the professional waterproofing solution of **ISOMAT** for the most demanding applications.

**ISOFLEX-PU 510** is based on 100% elastomeric hydrophobic polyurethane resins and forms an elastic seamless membrane that is weather and UV resistant.

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Read more.



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