

ISODIEN-PMF 4,5

Elastomeric bituminous membrane covered with mineral slate chips

Description

Elastomeric bituminous membrane made from a mixture of refinery bitumen and elastomeric SBS compound, reinforced with non-woven polyester fleece of 150 g/m². The upper side of the membrane is protected with grey mineral slate chips and the lower one with a thin polyethylene film, which is easily torched. Both sides of the membrane should be left unprotected to enable the overlapping of adjacent membrane sheets by 10 cm. It shows excellent strength and provides absolute waterproofing while featuring the elasticity needed to withstand the harshest conditions.

Fields of application

The application of ISODIEN-PMF 4,5 constitutes an effective, affordable and easy-to-apply waterproofing solution for terraces, thanks to its easy bonding to the terrace by blowtorching, without requiring the use of hot, oxidised bitumen (bituminous adhesive). Shows exceptional behavior even at low temperatures.

Technical data

(According to UEAtc European Directive for polymer bitumen)

Weight:	4.5 kg/m ²
Tensile strength (long.):	650 N/5 cm
Tensile strength (transv.):	450 N/5 cm
Elongation at break (long.):	40%
Elongation at break (transv.):	45%
Tear strength (long.):	160 N
Tear strength (transv.):	180 N
Static puncture resistance:	15 kg
Cold flexibility:	-20°C
Heat resistance:	+100°C
Softening point:	> +120°C
Penetration index at +25°C:	40 ± 5 dmm

Directions for use

1. Substrate preparation

The substrate must be free of dust, loose materials, paints, loose materials, etc. In the intersection of the terrace with the vertical structures, a fillet must be formed with DUROCRET polymer-modified cement mortar or a

cement mortar reinforced with ADIPLAST polymer latex. At this fillet, the membranes should be curved along their entire length. This prevents the bituminous membranes from folding at a right angle, which could result in cracking.

The terrace, which should be dry, is primed with a suitable bituminous primer, such as ISOPAST bituminous emulsion (consumption: approx. 0.3 kg/m²) or ISOLAC-BT bituminous varnish (consumption: approx. 0.3 kg/m²).

2. Application

The bituminous membranes are heated with a blowtorch and stuck to the surface, starting from the lowest points, so that there will be no joints against the water flow. The film covering the inner side of the membrane melts on contact with the flame and facilitates the bonding of the bituminous membranes to the surface. Adjacent membrane rolls should overlap by approx. 10 cm.

Once the bituminous membranes have been laid, joints are carefully treated with a blowtorch and sealed by pressing with an iron spatula, in order to ensure good bonding.

If any bituminous material has been left exposed, following the sealing of intersections, it is advisable to cover it with the elastomeric, liquid waterproofing membrane for flat roofs ISOFLEX.

Waterproofing is extended to a height of approx. 50 cm on the sides of vertical surfaces, such as parapets, staircase walls, etc., to form a watertight basin.

Although optional, it is recommended to fix the edges of the bituminous membranes to the vertical surfaces with aluminium strips, 2 mm thick and 3 cm wide. Galvanised nails and washers are used to fasten them.

The space between the strip and the vertical surface should be sealed with a special bituminous sealant (e.g. ISOMAC). Wherever there is an interruption to the waterproofing layer (pipes, rain pipes, metal bases, etc.), this should be sealed with the same sealant in the same way.

Packaging

ISODIEN 4 PF ALU is available in rolls of 10 m² (1 m x 10 m).