

## Elastomeric, bituminous membrane covered with aluminium sheet

### Description

Elastomeric, bituminous membrane reinforced with non-woven, polyester fabric of 150 gr/m<sup>2</sup>. The upper membrane is covered with an aluminium sheet and the lower membrane is covered with a thin film of polyethylene, which is easily torched. At the one edge of each membrane there is a margin (10 cm width) without aluminium cover, which enables covering with adjacent membrane sheets. It shows excellent strength and provides absolute waterproofing.

### Fields of application

The application of ISODIEN 4 PF ALU is an effective, affordable and easily-applied solution for waterproofing terraces, since its special feature is that it can be stuck on the terrace by being heated with a blowtorch, without requiring the use of hot, oxidised bitumen (bituminous adhesive).

### Technical data

(According to UEA to European directive for polymer bitumen)

Overall thickness:	4 mm
Weight:	4.0 kg/m <sup>2</sup>
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.):	150 N
Tear strength (transv.):	180 N
Static puncture resistance:	4 L
Dynamic puncture resistance:	4 I
Cold flexibility:	-20°C
Heat resistance:	+100°C

Softening point: > +125°C

### Directions for use

#### 1. Substrate preparation

The substrate must be free of dust, loose materials, old layers, paints etc. In the intersection of the terrace with the vertical structures, a fillet must be formed with DUOCRET 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/m<sup>2</sup>) or ISOLAC-BT bituminous varnish (consumption: approx. 0.3 kg/m<sup>2</sup>).

#### 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 each other at a width of approx. 10cm. Once the bituminous membranes have been laid, the joints are carefully treated with a blowtorch and sealed by pressing with an iron spatula, in order to ensure good bonding. The waterproofing is extended at a height of approx. 50 cm on the sides of vertical surfaces, such as parapets, staircase walls, etc., to form a watertight basin.

# ISODIEN 4 PF ALU



Although optional, it is recommended to fix the edges of the bituminous membranes to the vertical surfaces with aluminium strips, 2mm thick and 3cm 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 m<sup>2</sup> (1m x 10m).

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