

# ISOGUM 4P MIN

## Plastomeric bituminous membrane with chippings

### Description

Plastomeric bituminous membrane based on a mixture of high-quality distilled bitumen and thermoplastic polymers (APP, IPP). The membrane is reinforced with non-woven polyester fabric (180 g/m<sup>2</sup>). The upper surface of the membrane is covered with mineral chippings and the under surface is covered by a thin polyethylene film that is easily torched. At the one edge of each membrane there is a margin (10cm width) without mineral chipping, which enables covering with adjacent membrane sheets. It has excellent strength and provides absolute waterproofing.

### Fields of application

The application of ISOGUM 4P MIN is an effective, affordable and easy-to-apply solution for waterproofing terraces, since its special feature is that it can be stuck on the terrace surface by heating with a blowtorch, without the need of hot oxidised bitumen (bituminous adhesive).

### Technical data

(According to UEA tc European Directive for polymer bitumen.)

Weight:	4.0 kg/m <sup>2</sup>
Tensile strength (long.):	700 N / 5 cm
Tensile strength (transv.):	500 N / 5 cm
Elongation at break (long.):	40 %
Elongation at break (transv.):	40 %
Tear strength (long.):	140 N
Tear strength (transv.):	180 N
Static puncture resistance:	3 L
Dynamic puncture resistance:	4 L
Cold flexibility:	-5°C
Heat resistance:	+120°C
Softening point:	> +150°C
Penetration at +25°C:	25 ± 5 dmm

### Directions for use

#### 1. Substrate preparation

The substrate must be free of dust, loose materials, old layers, paints etc. Where the terrace intersects the vertical structures a groove must be formed using DUROCRET polymer-modified cement mortar or a cement mortar reinforced with ADIPLAST polymer latex. Over this groove 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 is 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.

Where bituminous membrane with mineral chippings is used, the bonding process in the overlapped areas involves a significant loss of chips. To ensure that the membrane surface protection against UV radiation is adequate, a coating with ISOFLEX is recommended along the entire length of the joints.

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

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Although optional, it is recommended that the edges of the bituminous membranes are fixed 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

ISOGUM 4 P MIN is available in rolls of 10 m<sup>2</sup> (1m x 10m).

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