Technical Datasheet

ISOGUM 3V

Plastomeric bituminous membrane

Description

Plastomeric bituminous membrane reinforced with fibreglass mat 50 g/m^2. The upper-side of the membrane is covered with a polyethylene sheet. The underside is covered with a thin polyethylene film that is easily torched. It has excellent strength and provides absolute waterproofing.

Fields of application

The application of ISOGUM 3V constitutes an effective, affordable and easy-to-install flat roof waterproofing solution since it is melt-welded onto the roof surface using a blowtorch (torch-on application), without the need of hot oxidised bitumen (bituminous adhesive).

Technical data

Overall thickness:	≈ 2 mm
Weight:	3.0 kg/m^2
Tensile strength (long.):	350 N / 5 cm
Tensile strength (transv.):	200 N / 5 cm
Elongation at break (long.):	2%
Elongation at break (transv.):	2%
Tear strength (long.):	70 N
Tear strength (transv.):	90 N
Static puncture resistance:	3 L
Dynamic puncture resistance:	3 L
Cold flexibility:	-5°C
Heat resistance:	+120°C
Softening point:	> +150°C

(Tolerance ±15%)

Directions for use

1. Substrate preparation
The substrate must be free of dust, loose materials, old layers, paints, etc. Where the flat roof meets the vertical structures, a groove must be formed using DUROCRET polymer-modified cementitious mortar or a cement mortar enhanced 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 flat roof, which should be dry, is primed with a suitable bituminous primer such as ISOPAST bituminous emulsion (consumption: ≈ 0.3 kg/m^2) or ISOLAC-BT bituminous varnish (consumption: ≈ 0.3 kg/m^2).

2. Application
The bituminous membrane sheets are heated with a blowtorch and bonded 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 when in 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. 10 cm.
Once the bituminous membranes have been laid, the joints are carefully treated with a blowtorch and sealed by pressing with an iron trowel 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.
Although optional, it is recommended that the edges of the bituminous membranes be fixed to the vertical surfaces with aluminium strips, 2 mm thick and 3 cm wide. Galvanized 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

Rolls of 10 m^2 (1 m x 10 m).

ISOMAT S.A.
BUILDING CHEMICALS AND MORTARS
MAIN OFFICES - FACTORY:
17th km Thessaloniki - Ag. Athanasios Road,
P.O. BOX 1043, 570 03 Ag. Athanasios, Greece,
Tel.: +30 2310 576 000, Fax: +30 2310 576 029
www.isomat.eu e-mail: support@isomat.eu