Mapethene T.A.

APP Modified Torch-Applied Bituminous Waterproofing Membrane

WHERE TO USE

Mapethene T.A. is a quality APP modified bituminous membrane, developed using the most up to date technology that enables it to perform over time and give long lasting waterproofing characteristics.

TECHNICAL CHARACTERISTICS

- Positive barrier to water and vapour
- Excellent resistance to atmospheric pressure
- High flexibility at low temperatures
- Withstands thermal shocks, ideal for exposed system
- Easy application
- General purpose membrane for various waterproofing jobs; roofing wet areas, basements, reroofing etc.
- Resistant to waterborne chemical attack

It is manufactured with non-woven polyester reinforcements that are impregnated and coated with a mixture of APP polymer modified bitumen.

This mixture gives the membrane its excellent properties of resistance to atmospheric agents, and to ageing. It ensures shape stability at high temperatures, and facilitates the ease of application and adhesion.

Thickness, Size & Surface Finish

Mapethene T.A. is available in a variety of thickness to suit all application requirements. Standard roll size is 1x10 meters lengths.

The upper surface can be finished in sand or mineral finish. The lower surface has a polyethylene film which melts when torched.

HOW TO USE

The application of **Mapethene T.A.** Roofing and Waterproofing membrane is easy and quick.

Laying the membrane

After having mopped the surface to be water proofed with 200-300 grms/m^2 of **Isamite SP** (ASTM D41), allow a drying time up to 24 hours.

In all cases, it is always necessary to unroll the membrane on the surface in its final position and then re-roll it ready for bonding. This procedure allows to detect in time any possible defect either in the waterproofing sheet or in the substrate. A check must be made to ensure that the correct, torchable side of the membrane is the one in contact with the substrate.

The torch flame must touch lightly the surface of the membrane and be in the direction of the substrate. This brings the bituminous compound to the correct fluidity without damaging its plastomeric components, and at the same time prepares (by heating it) the substrate which is then in the ideal condition to “receive” the adhesion of the waterproofing compound.

A valid indication of the time of heating of the bituminous compound is given by the colour of the torch flame.

When it changes from blue-yellow to red with emission of smoke, this means that combustion has started and melting of the membrane will follow. This is when the heating of the membrane must stop.

The joints

Jointing must be carried out by overlapping the edges of the membranes (laid as “tiles”, in a way which allows the down flow of the water), for at least 8 cm in the case of side joints and 12 cm for head joints.

This operation must be carried out with the greatest care, by appropriately dosing the use of the torch, as described above. The application is completed by gently pressing the edges so that some of the melted compound runs out. This can then be smoothed using a hot rounded trowel.

Sheet Arrangement

In case of single layer application, the above general instructions apply; in case of two or more layers, the sheets must be arranged in staggered rows with overlaps of the upper sheets in the middle of the lower sheets. Longitudinal overlaps must be in the same parallel to the slope.

TECHNICAL DATA (Typical Values)

	Tolerances	Mineral		Sand
Thickness (nominal)	-	-	-	3 mm
Membrane weight EN1849-1:1999	-	4kg/m^2	4.5kg/m^2	-
Cold flexibility EN 1109:1999	≤	0°C	0°C	0°C
Heat flow test EN 1110:1999	≥	110°C	110°C	110°C
Watertightness EN 1928 method B:2000	Passed	100 kPa	100 kPa	100 kPa
Water vapour transmission property EN 1931:2000	≥	20,000 μ	20,000 μ	20,000 μ
TENSILE STRENGTH: Longitudinal EN 12311-1:1999 Transverse	-20% -20%	400 N/5cm 300 N/5cm	400 N/5cm 300 N/5cm	400 N/5cm 300 N/5cm
ELONGATION: Longitudinal EN 12311-1:1999 Transverse	-15 absolute -15 absolute	30% 30%	30% 30%	30% 30%
TEAR RESISTANCE: Longitudinal EN 12310-1:1999 Transverse	-30% -30%	100 N 100 N	100 N 100 N	100 N 100 N
DIMENSIONAL STABILITY: Longitudinal EN 1107-1:1999 Transverse	≤ than stated ≤ than stated	± 0.3% ± 0.3%	± 0.3% ± 0.3%	± 0.3% ± 0.3%
External fire exposure UNI ENV 1187 / UNI EN 13501-5:2005	-	Class $F_{(Roof)}$	Class $F_{(Roof)}$	Class $F_{(Roof)}$
Reaction to fire UNI EN 11925-2 / UNI EN 13501-1:2005	-	Class F	Class F	Class F
Resistance to Ageing due to UV-Radiation	-	Complies	Complies	Complies

PRODUCT FOR PROFFESSIONAL ONLY.

WARNING

Although the technical details and recommendations contained in this product report correspond to the best of our knowledge and experience, all the above information must, in every case, be taken as merely indicative and subject to confirmation after long-term practical applications: for this reason, anyone who intends to use the product must ensure beforehand that it is suitable for the envisaged application: in every case, the user alone is fully responsible for any consequences deriving from the use of the product.

(Far East)

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