

Mapethene Flex TA

SBS modified torch applied bituminous waterproofing membrane



WHERE TO USE

Mapethene Flex TA is a quality SBS 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.
- Excellent resistance to atmospheric pressure.
- High flexibility at low temperature.
- Withstands thermal shocks, ideal for ballasted and exposed (slated type) systems.
- Easy application.
- General purpose membrane for various waterproofing jobs; roofing wet areas, basements, reroofing etc.
- It is manufactured with non-woven polyester reinforcements, stabilized with longitudinal glass wire that are impregnated and coated with a mixture of SBS polymer modified bitumen.

Thickness, Size & Surface Finish

Mapethene Flex TA 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 slated (to exposed layers) finish. The lower surface has a polyethylene film which melts when torched.

HOW TO USE

Preparing the substrate

The application of **Mapethene Flex TA** roofing and waterproofing membrane is easy and quick.

Laying the membrane

Prime the surface to be waterproofed with 200-300 g/m² of **Polyprimer** or **Idroprimer** by using a mop. 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. 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 condition 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.

The colour of the torch flame indicates the time of heating of the bituminous compound. 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.

TECHNICAL DATA (typical values)

In compliance with:

- EN 13707 product standards (layers for roofing)
- EN 13969 TYPE T product standards (layers for foundations)

TEST METHOD	TECHNICAL FEATURES	UNITS OF MEASURE	NOMINAL VALUES	NOMINAL VALUES
EN 1848-1	LENGTH	m	(10 -1%)	(10 -1%)
EN 1848-1	WIDTH	m	(1 -1%)	(1 -1%)
EN 1848-1	STRAIGHTNESS	mm/10 m	pass	pass
EN 1849-1	THICKNESS	mm	3-4-5 (± 0,2)	NPD
EN 1849-1	MASS PER UNIT AREA	kg/m ²	NPD	4 - 4,5 - 5 (± 10%)
EN 1928-B	WATERTIGHTNESS	kPa	pass	pass
EN 1928-B EN 1296	DURABILITY OF WATERTIGHTNESS AGAINST ARTIFICIAL AGEING	-	pass	pass
EN 1928-B EN 1847	DURABILITY OF WATERTIGHTNESS AGAINST CHEMICALS	kPa	pass	pass
EN 13897	WATERTIGHTNESS AFTER STRETCHING	%	NPD	NPD
EN 13501-5	EXTERNAL FIRE PERFORMANCE	-	NPD	NPD
EN 13501-1	REACTION TO FIRE	-	E	E
EN 12316	PEEL RESISTANCE	N/50 mm	NPD	NPD
EN 12317	SHEAR RESISTANCE	N/50 mm	NPD	NPD
EN 12311-1	MAXIMUM LOAD AT BREAK - longitudinal - transversal	N/50 mm N/50 mm	700 (± 20%) 450 (± 20%)	700 (± 20%) 450 (± 20%)
EN 12311-1	ELONGATION AT BREAK - longitudinal - transversal	% %	45 (± 15) 50 (± 15)	45 (± 15) 50 (± 15)
EN 12691-A	RESISTANCE TO IMPACT	mm	≥ 700	≥ 700
EN 12730-A	RESISTANCE TO STATIC LOADING	kg	≥10	≥ 10
EN 12310-1	RESISTANCE TO TEARING - longitudinal - transversal	N N	150 (± 30%) 150 (± 30%)	150 (± 30%) 150 (± 30%)
EN 1107-1	DIMENSIONAL STABILITY	%	≤ 0.3	≤ 0.3
EN 1108	FORM STABILITY UNDER CYCLIC TEMPERATURE CHANGE	%	NPD	NPD
EN 1109	COLD FLEXIBILITY	°C	≤ -20	≤ -20
EN 1110	FLOW RESISTANCE AT ELEVATED TEMPERATURE	°C	≥ 100	≥ 100
EN 1110 EN 1296	FLOW RESISTANCE AFTER ARTIFICIAL AGEING	°C	≥ 90	≥ 90
EN 1297 EN 1850-1	ARTIFICIAL AGEING BEHAVIOUR (VISIBLE DEFECTS)	-	NPD	NPD
EN 12039	ADHESION OF GRANULES	%	NPD	≤ 30
EN 1931	WATER VAPOUR PROPERTIES μ	-	20.000	20.000
EN 1850-1	VISIBLE DEFECTS	-	absents	absents

MAPETHENE FLEX TA

MINERAL MAPETHENE FLEX TA

PRODUCT	SINGLE LAYER		MULTI-LAYER				ROOT BARRIER	VAPOUR BARRIER	FOUNDATIONS		UNDER ROOFING TILE
			F.L.		U.L.				R.D.	P.	
	E.	U.H.P.	E.	U.H.P.	E.	U.H.P.					
3 mm				•	•	•					
4 mm			•	•	•	•			•		
4 kg Mineral			•								
4,5 kg Mineral			•								
5 kg Mineral			•								
4 mm Mineral			•								

F.L.: Finishing Layer - U.L.: Underlying Layer - R.D.: Rising Damps - P.: Pitch - E.: Exposed - U.H.P.: Under Heavy Protection

The joints

Jointing must be carried out by overlapping the edges of the membranes to follow the direction of the slope, stating from the lowest to the highest point. (laid as "tiles", in a way which allows the down flow of the water). Allow at least 8 cm overlap in the case of lap joints and 12 cm for end 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 manner parallel to the slope.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Mapethene Flex TA is an article and referring to the current European regulations (Reg. 1906/2007/CE - REACH) does not require the preparation of the Safety Data Sheet. During use it is recommended to wear gloves and goggles and follow the safety requirements of the workplace.

PRODUCT FOR PROFESSIONAL USE.

WARNING

Although the technical details and recommendations contained in this product

data sheet 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 application; 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.

Please refer to the current version of the Technical Data Sheet, available from our website www.mapei.com

LEGAL NOTICE

The contents of this Technical Data Sheet ("TDS") may be copied into another project-related document, but the resulting document shall not supplement or replace requirements per the TDS in force at the time of the MAPEI product installation.

The most up-to-date TDS can be downloaded from our website www.mapei.com.

ANY ALTERATION TO THE WORDING OR REQUIREMENTS CONTAINED OR DERIVED FROM THIS TDS EXCLUDES THE RESPONSIBILITY OF MAPEI.

All relevant references for the product are available upon request and from www.mapei.com

**Mapethene
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