

DESCRIPTION

Mapeplan® T M is a synthetic roofing waterproofing membrane in flexible polyolefin TPO/FPO produced in one multi-extrusion coating process, with high quality raw materials, reinforced with polyester net.

Mapeplan® T M is conform to EN 13956 standard.

APPLICATION FIELDS

Mapeplan® T M is suitable for exposed roof installations and for mechanical fixing. It is resistant to ultraviolet rays and may be exposed to all weather conditions.

NORMS AND CERTIFICATIONS

CE conformity marking according to EN 13956 standard ISO 9001 quality system certification ISO 14001 environmental system certification Leed Certification (Leadership in Energy and Environmental Design)





TECHNICAL CHARACTERISTICS

Mapeplan® T M is a high standard quality product; it performs very good mechanical properties, best workability as well as excellent welding characteristics.

- High solar reflectance
- High workability and weldability
- High mechanical resistance
- Excellent flexibility at low temperatures
- Excellent resistance to ageing
- Excellent resistance to UV rays and to weathering
- Vapour permeability
- Formulation without plasticizers

PACKAGING

PALLET	14 rolls per pallet			
LENGTH OF ROLLS	25 m 20 m 15 m (according to the thickness)			
WIDTH OF ROLLS	2,10 m 1,60 m 1,05 m			

STORAGE

Store horizontally, shelter from sun and bad weather in a dry place.

SAFETY INSTRUCTIONS

Mapeplan® T M is not considered dangerous according to the current safety regulation for the classification of goods and substances. The safety datasheet is therefore not compulsory for the purchase, transport and application. Precaution during use: ensure a proper change of air if the application is made in closed working environments.



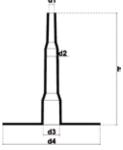


TECHNICAL DATA

PRODUCT PROPERTIES							
Product		Waterproofing membrane in TPO/FPO (flexible polyolefin), reinforced with polyester net					
Colour		Top layer: high reflectance Smart White Bottom layer: black					
European standard		EN 13956					
CHARACTERISTICS STANDARDS - M.U.		Mapeplan® T M 12	Mapeplan® T M 15	Mapeplan® T M 18	Mapeplan® T M 20		
Visible defects	EN 1850-2	None	None	None	None		
Length (m)	EN 1848-2	25 (-0/+5%)	20 (-0/+5%)	15 (-0/+5%)	15 (-0/+5%)		
Width (m)	EN 1848-2	2,10/1,60/1,05 (-0,5/+1%)	2,10/1,60/1,05 (-0,5/+1%)	2,10/1,60/1,05 (-0,5/+1%)	2,10/1,60/1,05 (-0,5/+1%)		
Straightness (mm)	EN 1848-2	≤ 30	≤ 30	≤ 30	≤ 30		
Flatness (mm)	EN 1848-2	≤ 10	≤ 10	≤ 10	≤ 10		
Mass per unit area (kg/m²)	EN 1849-2	1,2 (-5/+10%)	1,5 (-5/+10%)	1,8 (-5/+10%)	2,0 (-5/+10%)		
Effective thickness (mm)	EN 1849-2	1,2 (-5/+10%)	1,5 (-5/+10%)	1,8 (-5/+10%)	2,0 (-5/+10%)		
TECHNICAL CHARACTERISTICS		Mapeplan® T M 12	Mapeplan® T M 15	Mapeplan® T M 18	Mapeplan® T M 20		
Water tightness (kPa/72h) EN 1928		≥ 400	≥ 400	≥ 400	≥ 400		
Reaction to fire EN 13501-1		Class E	Class E	Class E	Class E		
External fire performance Broof (t1) ENV 1187		passes < 20°	passes < 20°	passes < 20°	passes < 20°		
Joint peel resistance EN 12316-2 (N/50mm)		≥ 300	≥ 300	≥ 300	≥ 300		
Joint shear resistance EN 12317-2 (N/50mm)		≥ 650	≥ 650	≥ 650	≥ 650		
Vapour diffusion resistance EN 1931 (μ)		150.000	150.000	150.000	150.000		
Hail resistance		≥ 18	≥ 22	≥ 25	≥ 28		
- rigid support - flexible support EN 13583 (m/s)		≥ 25	≥ 30	≥33	≥36		
Tensile strength (N/50mm) EN 12311-2		≥ 1100	≥ 1100	≥ 1100	≥ 1100		
Elongation EN 12311-2 (%)		≥ 15	≥ 15	≥ 15	≥ 15		
Resistance to impact							
rigid supportflexible support		≥ 400 ≥ 800	≥ 600 ≥ 900	≥ 800 ≥ 1000	≥ 900		
EN 12691 (mm)		2 000	2 900	2 1000	≥ 1100		
Resistance to static load EN 12730-B (kg)		≥ 20	≥ 20	≥ 20	≥ 20		
Tear resistance EN 12310-2 (N)		≥ 200	≥ 200	≥ 200	≥ 200		
Dimensional stability		≤0,3	≤ 0,3	≤0,3	≤ 0,3		
EN 1107-2 (%) Foldability at low temperature	es	≤-35	≤-35	≤-35	≤ -35		
EN 495-5 (°C) UV exposure							
EN 1297		grade 0 - passes	grade 0 - passes	grade 0 - passes	grade 0 - passes		
Exposure/compatibility to aged bitumen (possible colour variations)		compatible	compatible	compatible	compatible		
SRI (Solar Reflectance Index) ASTM E1980		102	102	102	102		

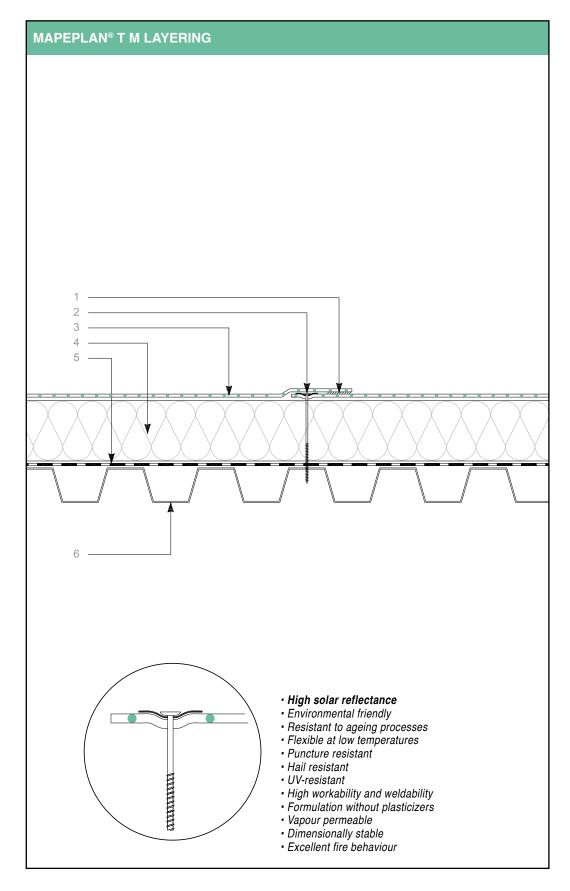
MAPEPLAN® T ACCESSORIES

- Mapeplan® T D, membrane for details and particulars
- Mapeplan® T D, membrane for details and particulars
 Mapeplan® T, metal sheets coupled to Mapeplan® T membrane
 Mapeplan® T, internal and external prefabricated corners
 Mapeplan® ADS 300, contact adhesives
 Mapeplan® T Cleaner, cleaning liquid
 Mapeplan® T, outlets and special prefabricated pieces



CONNECTOR

Considering the various situations of use, the numerous types of support surfaces and the possibilities for use inside COMPLEX WATERPROF LAYERING, Polyglass SpA cannot assume any liability for damages derived from the product's results in terms of function or aesthetics.



Technical specifications of product are available on the technical books.

References for this product are available on request and on Mapei and polyglass web sites at the following addresses www.mapei.it, www.mapei.com and www.polyglass.com

LEGEND

- Overlap/Hot air welding
 Mechanical fixing system
 Mapeplan® T M, roofing membrane
 Thermal insulation (mechanically fixed)
 Vapour control layer (for example Mapeplan® VB PE)
- 6. Substrate





MAPEPLAN range is produced by:



Registered Office - Viale Jenner, 4 - 20159 MILANO