

KISCOTE TPO

Polyolefin TPO Flexible Membrane for Exposed Roof

DESCRIPTION

KISCOTE TPO is a synthetic membrane made from co-extruding a uniform UV resistant elastomerized TPO/FPA thermoplastic olefin and flexible polypropylene. It is the perfect waterproofing solution for many roof of special designs with flat or irregular profiles, and varying materials such as concrete, metal, zinc and others.

RECOMMENDED USES

- Mechanically retained waterproofing on exposed roofs.
- Waterproofing layers loose laid under heavy-duty fixed or movable protection for: roofing exposed to foot traffic and roof gardens.

ADVANTAGES

- Can be used in exposed area
- Excellent adhesion between joints with hot-weld technology
- High strength
- Excellent dimensional stability

PACKAGING

KISCOTE TPO is manufactured in the following dimension;

PRODUCTION STANDARDS

Thickness (*) mm	1.2	1.5	1.8	2.0	
Width m	2.10	2.10	2.10	2.10	
Length (*) m	25	25	20	20	
Colour	Off White / Grey / Black				

^(*) Different thicknesses and lengths are available on demand and for minimum quantities.

APPLICATION GUIDELINES

a) Surface Preparation

- Surface must be sound, clean and free of irregularities, loose particles, voids, loose materials, oil, grease, curing compounds, sealers and any foreign matters.
- The remains of separator should be removed.
- Metal plates and rigid plastics should be sanded and dusted.
- Aluminum foils and metals must be pretreated.

b) Application

KISCOTE TPO membranes are applied through hot air gun on their overlapping joints, as no adhesives or other materials of any kind are required. Design solutions and application methods are illustrated in the technical manual published by KENSETSU INTERNATIONAL APPLICATION MANUAL. Waterproofing systems employing KISCOTE TPO membranes should be laid by installers authorized by KENSETSU INTERNATIONAL.

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STORAGE

KISCOTE TPO should be stored in sealed original packing at room temperature up to 12 months from date of manufacturing.

HEALTH & SAFETY

Refer to SDS for further information.

TECHNICAL PROPERTIES

KISCOTE TPO											
Features ⁽¹⁾	EN Standards	U.M.	Tolerance	Values							
Standard thickness	1849-2	mm	(-5/+10%)	1,2	1,5	1,8	2,0				
Density	1849-2	kg/ ²	(-5/+10%)	1,08	1,35	1,62	1,8				
Tensile properties		- 0/	, , ,								
Tensile strength	ASTM D412	N/mm ²		≥ 28 MPa							
* Elongation at break L/T	12311-2	%		600/600							
Dimensional stability	1107-2	%		≤ 0.5							
Cold flexibility	495-5	°C		≤ -40 ⁽²⁾							
Tear resistance L/T	12310/1	N		330/240	450/400	550/500	650/600				
Water vapour permeability	ASTM E96	g/m²/hr		0							
Resistance to hydrostatic	ASTM 5385	m		≥ 70							
pressure											
Resistance to puncture	ASTM D154	N		≥ 1000							
Resistance to lateral Water	ASTM D5385			Compliant							
Migration											
Water tightness (60kPa)	1928			Absolute							
Joint strength											
* Tensile strength	12317-2	N/cm		Compliant							
				(specimen fails outside bond area)							
* Peeling	12316-2	N/cm		≥ 58							
Durability	100= =000						<u></u>				
* Resistance to artificial	1297-5000h			No surface damage or significant changes in cold flexibility as per EN 495/5							
UV light				changes i	n cold flexib	ility as per	EN 495/5				
Heat aging in area	12211 2	A 0 /				_					
* Change in tensile strength	12311-2 12311-2	Δ%		-5 -5							
* Change in elongation at break	12311-2	Δ%		-5							
Wind load resistance											
(wind suction test) (UEAtc)											
* Mechanically retained	Pa				> 5	500					
system	1 4				= 5	500					
Reaction to fire	13501-1			Class E (3)							
Resistance to algae and	ISO 846			Compliant							
microorganisms	Level 2										
Root resistance	13948			Passes the test							
Contact with drinking water	Italian Ministerial Degree			Suitable							
(DW)	26-04-93 n. 220 – 0, J. No.162/13-07-1993										
	and subsequent										
	amendments										

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Notes: (1) Tolerances as per EN 1396 and/or UEAtc Directives.

- (2) Not tested at lower temperatures.
- (3) Based on Warringtonfiregent Classification Report for roofs/roof coverings exposed to external fire Nr 13561B.
- (*) Not tested at higher speeds.

IMPORTANT NOTES

Any information and/or specification contained herein is to the best of the company knowledge, true and accurate, it is always recommended that trial to be carried out to confirm suitability of use for all products, as no warranty is given or implied in connection with any recommendations and/or suggestions made by the company representatives, agents and/or distributors.

All information contained in this document is effective from date shown and supersedes all previous version. Please check with your local KENSETSU office to confirm that this is up to date version.

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