

HYPERFLEX-P10

SBS MODIFIED BITUMEN ELASTOMERIC WATERPROOFING MEMBRANE REINFORCED WITH COMPOSITE POLYESTER

PRODUCT DESCRIPTION

Produced by the Modern Waterproofing Company, HYPERFLEX P10 is a line of polymer-modified bitumen waterproofing membrane of the highest quality. HYPERFLEX - P10 is modified by SBS, thus guaranteeing high flexibility under very low temperature HYPERFLEX P10 is reinforced with composite polyester (P) of non-woven polyester armoured with glass fiber filaments which provides highly mechanical properties and dimensional stability.

USES

HYPERFLEX - P10 is a high performance membrane. can be applied virtually anywhere where torch applied modified bitumen membranes subject to high mechanical stresses are specified, and low temperature performance is required, HYPERFLEX - P10 can be applied in:

- Single layer roofing system subject to low temperature.
 - Foundations and underground structures subject to movements.
 - Waterproofing of toilets, wet area inside buildings.
- HYPERFLEX - P10 with mineral slated finish is recommended for exposed roofing system (Unprotected) for Non-accessible roofs or roofs subject to low traffic conditions.

ADVANTAGES

HYPERFLEX P10 has been designed with special regard to providing clients with an excellent and versatile product. Advantages of HYPERFLEX - P10 include:

- Easy to apply (by torch).
- Highly mechanical properties.
- Absolute impermeability to water.
- High elasticity at sever low temperature up to -10°C.
- Resistant to chemicals attack probable to be existing in soil.
- Excellent high temperature performance.
- Excellent adhesion on any surface.
- High dimensional stability.
- Environmentally friendly.

CERTIFICATION:

This product is certified from the Egyptian government being in compliance with the quality mark of (EOS) and ASTM D 6222/2016.

QUALITY CONTROL

The Modern Waterproofing Company is ISO 9001 certified. it applies a stringent quality control system utilizing its in-house laboratory. Occasional samples are analyzed by independent laboratories to ensure continued adherence to the highest slanders (ASTM, DIN, UNI, etc.). Each roll HYPERFLEX P10, is individually coded pith a label containing all necessary information about the rckll. This is intended to ensure tractability in accordance with ISO Control standards..

PRODUCT RANGE

Standard thickness available includes 3mm and 4mm. Some types could be available by weight 3kg/m² and 4kg/m². Bottom surface finish is normally Polyethylene Film (PE).

Upper surface finish choices include:

- Polyethylene Film (PE).
- Fine Sand (S).
- Mineral Granule Grey (MGY).
- Mineral Granule Green (MGRN).
- Mineral Granule Blue (MBL).
- Mineral Slated Grey (GY).
- Mineral Slated Green (GRN).
- Mineral slated White (WT).
- Mineral slated Red (RD).

Slated rolls are available in 4, 4.5, 5 qnd 5.5 kg per square meter. The nominal length of each roll is 10 meters and the nominal width is one meter. Special specification cal' be designed based on client's needs.

PRODUCT INFORMATION

			TOLERANCE
Roll Length	10m	EN-1848-1	±1%
Roll Width	1m	EN-1848-1	±1%
Thickness for PE finish	3 & 4 mm	EN-1849-1	±5%
Weight for slated surface finish	4, 4.5, 5 & 5.5 kg/m ²	EN-1849-1	±10%
Reinforcement	Non-woven Composite Polyester		

TECHNICAL DATA		TEST METHOD	UNIT	VALUE	TOLERANCE
Softening point (Ring &Ball)		ASTM D-36	°C	≥125	
Penetration at	25°C	ASTM D-5	dmm	30 to 35	
	60°C		dmm	110 to 120	
Cold flexibility		EN 1109	°C	- 10	
Heat Resistance		EN 1110	°C	100	
Reinforcement	Non-Woven Composite Polyester				
Tensile Strength		EN 12311-1	N/5cm	850	±25%
	Long		N/5cm	650	±25%
Elongation	Wide	EN 12311-1	%	45	±20%
	Long		%	50	±20%
Tear Resistance (Nail - shank)	Wide	EN 12310-1	N	250	±25%
	Long		N	300	±25%
Tensile-tear Resistance	Wide	ASTM D-5147	N	650	±25%
	Long		N	500	±25%
Joint Tensile strength	Wide	EN 12317-1	N/5cm	850	±25%
	Long		N/5cm	650	±25%
Dimensional stability	Wide	EN 1107-1	%	± 0.5	
	Long		%	± 0.5	
Water absorption	Wide	ASTM D-5147	%	0.15 max.	
Static puncture resistance		EN 12730:2001	kg	20	
Dynamic puncture resistance Water		EN 12691	mm	1750	
impermeability 100 k pa		EN 1928:2000	-	Absolutely impermeable	
Impermeability to water vapor		EN 1931	μ	80.000	
Ageing due to U.V. radiation		EN 1296	-	Pass	
Resistance to thermal ageing		EN 1296	-	No signs of deterioration after the test	
Adhesion to concrete		EN 13596	N/cm ²	40	
Average granules loss for mineral slated finish		ASTM - D4977	gm/m ²	Less than 200	

NOTES:

- Above results are based on 4mm membrane
- Due to constant product improvements, MODERN company reserves the right to change above values without advance notice

APPLICATION INSTRUCTIONS:

- HYPERFLEX-P10 membranes are installed and welded by propane torch, loose laid or fully bonded to the substrate.
- While unloading from truck, avoid the membranes by no means to fall or thrown down.
- To avoid over bending of membrane at 90° corners, apply 5X5 cm sand cement cant strip
- Surface to be waterproofed should be free from dust, oils and should be smooth.
- Before installing HYPERFLEX-P10 membranes, surface should be primed with NIROL W, WM, WB, R or S.
- The position of each roll is determined by unrolling it in its position, then, rerolled about half of its length without changing its orientation.
- Each roll should overlap the next by 10 cm side lap and 15 cm staggered end laps.
- For fully bonded system, the membrane is unrolled slowly while applying the flame to its lower face until burning the plastic cover and the bituminous mass melting to weld the membrane to the substrate.
- Then torching the seams by heating the contact line at side end laps by torch from above, use a trowel for pressing the upper membrane to the lower one, avoiding overheating of the same point.
- For sloping roofs, start laying the membrane from the lower edge with longitudinal direction of rolls perpendicular to slope direction, side labs of next roll to be placed above the first one, etc....
- For detailed application procedures, please refer to BITUMODE MANUAL GUIDE, where you can find construction detail drawings.

STORAGE:

HYPERFLEX-P10 membranes should be stored vertically in well covered and ventilated place not subject to direct sunlight



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