

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 – SBS 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 from -10°C up to -20°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

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 standers (ASTM, DIN, UNI, etc.).

Each roll HYPERFLEX-P10 is individually coded with a label containing all necessary information about the roll. This is intended to ensure tractability in accordance with ISO control standards.

PRODUCT RANGE

Standard thickness available includes 2,5mm, 3mm, 4mm and 5mm. 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) | - Mineral Slated Green (GRN) |
| - Fine Sand (S) | - Mineral slated White (WT) |
| - Mineral Slated Grey (GY) | - Mineral slated Red (RD) |

Slated rolls are available in 4kg, 4.5kg and 5kg per square meter.

The nominal length of each roll is 10 meters and the nominal width is one meter.

Special specification can be designed based on client's need

TECHNICAL DATA	TEST METHOD	UNIT	RESULT
Roll length	EN 1848-1	m	10
Roll Width	EN 1848-1	m	1
Thickness for pe finish	EN 1848-2	mm	2, 3 & 4
Softening Point (Ring & Ball)	ASTM D-36	°C	≥ 125
Penetration at	ASTM D-5	25°C	30 to 35
		60°C	110 to 120
Elongation of compound	EN 12311-1	%	1400
Cold Flexibility	EN 1109	°C	-10
Heat Resistance	EN 1110	°C	100
Reinforcement			Non-woven Composite Polyester
Tensile strength	EN 12311-1	Long	850
		Wide	650
Elongation	EN 12311-1	Long	≥ 45
		Wide	≥ 50
Tear Resistance (Nail - Shank)	EN 12310-1	Long	250
		Wide	300
Tensile-tear Resistance	ASTM D-5147	Long	650
		Wide	500
Joint tensile strength	EN 12317-1	Long	850
		Wide	650
Dimensional stability	EN 1107-1	Long	± 0.2
		Wide	± 0.1
Water absorption	ASTM D-5147	%	0.10 max.
Static puncture resistance	EN 12730:2001	Kg	20
Dynamic puncture resistance	EN 12691	mm	1750
Water impermeability at 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
Thermal conductivity	ASTM C-177	Kcal/mh °C	0.12
Dielectric constant (k)	ASTM D-150	-	2.5
Dielectric rigidity	-	Kv/mm	14
Average Granule loss for Mineral Slated Finish	ASTM - D4977	gm/m ²	Less than 200

NOTES

- Above results are based on 4mm membrane
- Tolerance within 20% of the above results for mechanical characteristics complies with the tolerance specification of (ASTM,EN).
- Due to constant product improvements, MODERN company reserves the right to change above values without advance notice.

STORAGE

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

APPLICATION INSTRUCTIONS

- HYPERFLEX-P10 membranes are installed by propane torch welding method, loose laid or fully bonded to the substrate depending on system requirements.
- While unloading from truck the rolls shall by no means allowed to fall or be thrown down from the truck
- To avoid applying the membrane to corners with 90° angle, sand cement cant strip 5x5 cm should be executed at horizontal - vertical intersections.
- Surface to be waterproofed should be clean, dry, free from dust and smooth, in case of irregular surface a sand cement screed is recommended.
- Before laying HYPERFLEX-P10 membranes, surface should be primed with cold applied bituminous primer (NIROL - S)
- Membrane is unrolled and placed in aligned position
- Each roll should overlap the next by 10cm side laps and 15cm staggered end laps.
- Then, membrane should be re-rolled about half of its length without changing its orientation
- Using a propane gas torch the membrane is un-rolled again slowly while applying the flame to the entire exposed lower face (For fully bonded system) - until the plastic cover film burns off and the bituminous mass starts melting, thus creating a heat weld between the membrane and the substrate.
- Then, torching of the seams takes place by heating the contact line at side and end laps by torch from above, pressing the upper membrane on to the lower one using a trowel, the torch has to be carefully used avoiding to keep the flame on the same point for too long.
- For sloping roofs start laying the membrane from the lower edge with longitudinal direction of rolls perpendicular to slope direction, side lap of next roll to be placed above the first one etc,...

NHÀ PHÂN PHỐI

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