



HS Proshield -P

APP Modified Elasto - Plastic WP Membrane reinforced with non-woven polyester

Product composition

HS Proshield -P is a high-performance waterproofing membrane made of distilled bitumen modified with elasto-plastic polymers and Atactic Polypropylene (APP) providing the membrane with excellent aging performance. Its non-woven polyester inlayer provides the membrane with high mechanical characteristics as well as giving excellent dimensional stability.

Usage area

HS Proshield -P can be applied in single layer roofing systems as well as for water barrier and is ideal for waterproofing of roofs, reservoirs, basements, terrace garden, car parking, tunnels and bridge decks.

METHOD OF APPLICATION

For the application of the membrane the use of heat is generated by means of gas torches or specific hot air machines. Co-ordinate the operations in a way as not to cause damage to the construction elements and underground structure. Avoid leaving the structure for the night or for long periods of work interruptions without having the membrane properly sealed. The application surface must not have depressions, to avoid the ponding of rainwater and it must have sufficient slope to guarantee a regular rain runoff. Normally this is obtained with a slope of 1.5%. The water drainage spouts should be sufficiently big to allow rain water to be eliminated in an efficient way.

Prepare cementitious substrate, including verticals and details, with Proshield Primer @ 0.30 L/m² and allow it to hard dry for 12-24hrs. The membrane must be unrolled and laid aligned to the lowest point of the slope of the roof and progress towards the higher point of the roof. Each roll should overlap the next by 100 mm on the side laps and 150 mm at the end laps for below ground application and 75 mm and 100 mm overlaps for above ground application respectively. The membrane must be applied to the substrate fully bonded. In any case, when in the proximity of the head laps, the membrane must be applied for at least 100 mm, furthermore all details, perimeters, verticals, change of slope as well as projecting area must be fully bonded.

Health and Environment

The membrane does not contain any substance which is likely to be detrimental to health or to the environment. It complies with generally admitted health and safety requirements.

TECHNICAL DATA

SL	PARAMETERS		UNIT	PROSHIELD-P		PROSHIELD-H		PROSHIELD-F		TEST METHOD
1	Roll Thickness		mm	3 and 4	2	3 and 4	2	3 and 4	2	EN 1849-1/ASTM D5147
2	Roll Length		m	10	15	10	15	10	15	EN 1849-2/ASTM D5147
3	Softening Point		°C	> 150	> 150	> 150	> 150	> 150	> 150	EN 1427/ASTM D36
4	Heat Resistance, 120°C, 2 hrs		°C	No Flow	No Flow	No Flow	No Flow	No Flow	No Flow	EN 1110/ASTM D146/D5147
5	Penetration at 25°C		dmm	> 20	> 18	> 20	> 18	> 20	> 18	EN 14023/ASTM D5
6	Tensile Strength	Longitudinal	N/5 cm	700	500	750	650	650	450	EN 12311-1/ASTM D4073
		Transverse		500	400	550	350	450	350	
7	Elongation at Break	Longitudinal	In%	45	35	15	15	15	15	EN 12311-1/ASTM D5147/D4073
		Transverse		50	50	12	12	12	12	
8	Tear Resistance	Longitudinal	N	450	300	450	400	400	350	EN 12310-2/ASTM D4073
		Transverse		400	400	400	300	350	300	
9	Cold Flexibility		°C	-2	-2	-2	-2	-2	-2	EN 1109/ASTM 5147
10	Finish		Finish	Smooth Surface		Smooth Surface		Smooth Surface		ASTM D 6222/D 6223
11	Water Absorption		%	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	EN 1109/ASTM D 5147
12	Puncture Resistance	Static Indentation		L – 3	L – 3	L – 3	L – 3	L – 3	L – 3	N/A
		Dynamic Indentation		I – 3	I – 3	I – 3	I – 3	I – 3	I – 3	N/A

Unique Features

- Easy to apply (by propane torch)
- High tensile strength and tear resistant
- High dimensional stability
- Absolute impermeability to water
- Excellent resistance to ageing and weathering
- Excellent high temperature performance
- Highly resistant to impact, puncture and substrate movement
- Excellent adhesion and seam integrity on any surface
- Excellent cold flexibility
- Environment friendly

Packaging

All types of membranes are available in (1m x 10 m) in 3 mm & 4 mm thickness and (1m x 15 m) in 2 mm thickness.

Storage

All types of Proshield membranes should be kept vertically in an upright position in a covered shed, away from all sources of direct sunlight.

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