



BETAGUM HW

SBS modified waterproofing membrane

THE PRODUCT

BETAGUM HW is an elastomeric type membrane, obtained from distilled bitumen modified with elastomeric (SBS) polymers. **BETAGUM HW** is reinforced with high weight spunbond polyester.

USES

BETAGUM HW is a waterproofing membrane suitable for application on various roof types, whether thermal insulated or not, on foundations, tanking etc.

FINISHES

Upper surface

BETAGUM HW membrane is available with sand, to ensure that the rolls unwind correctly.

Lower surface

BETAGUM HW have a TORCHFLAM heat sensitive plastic film which prevents the rolls sticking together, to allow the gases to escape, besides giving a nice looking finish to the rolls.

The TORCHFLAM film acts as temperature indicator by stating, when melting, that the compound has reached the correct fusion temperature.

PACKAGING

The rolls are generally 1 m wide and 10 m long. The upper tape indicates the product brand name and the lower tape the weight or thickness of the product. The rolls are supplied on wooden pallets and are held in place by a protective heat shrunk polythene covering. Each pallet has two Quality Control Tickets which enable an easy identification of the product and the retrieval of its technical characteristics when needed.

TOOL REQUIREMENTS

For the correct installation of **BETAGUM HW** type membranes, it is only required a propane gas roofing torch with a gas bottle, reduction valve and at least 10 m of approved type hose, a round nosed trowel or spatula, a utility knife, and a pair of gloves.

INSTALLATION

The surface where the membrane has to be installed must be smooth, clean, dry and treated, if required, with primer coating (for example if the material has to be fully bonded), to enhance the adhesion of the membrane to the substrate. The membrane rolls will be unrolled and laid out on the dry primer coating, then aligned before being rolled up again. The membrane is then slowly unrolled while the lower surface is heated using the propane gas roofing torch until the TORCHFLAM melts and the bituminous compound starts melting. Side laps must be at least 100 mm and head laps 150 mm. After performing the overlap, the joint (while still hot) must be pressed, using a round nosed trowel, to ensure its good seal, and to level the molten bituminous compound that seeps from a correctly executed joint. The hot surface of the membrane should not be scraped using the trowel to avoid the exposure of the carrier.





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Characteristics	Norms	U.M.	Test results	Tolerance
			BETAGUM HW	
Carrier type	/	/	High weight spunbond polyester	/
Compound	/	/	BPE - Elastomeric bitumen	/
Softening point	ASTM-D36	°C	≥ 105	/
Penetration at 25 °C	ASTM-D5	dmm	20 - 45	/
Upper surfacing	/	/	Sand	/
Lower surfacing	/	/	Film PE	/
Type of application	/	/	SS-Under layer	/
Method of application	/	/	Torch	/
Thickness	ASTM-D5147	mm	4 mm	± 0,2 mm
Tensile properties at 23 °C	ASTM-D5147	N/5 cm	900 (18 KN/m)	± 10%
-maximum longitudinal tensile strength		N/5 cm	800 (16 KN/m)	± 10%
-maximum transversal tensile strength		%	55	/
- longitudinal elongation		%	55	/
- transversal elongation				
Lap joint strength a 23 °C	/	/	Same as membrane	/
Puncture resistance	ASTM-E154	N	1000	/
Static indentation	UEAtc 5.1.9	/	L ₃	/
Dynamic indentation	UEAtc 5.1.10	/	I ₃	/
Tear resistance	ASTM-D5147 (ASTM-D4073)	N	450	/
- longitudinal			400	/
- transversal				
Dimensional stability	ASTM-D5147	%	< 0,5	/
Low temperature flexibility	ASTM-D5147	°C	- 15	/
Heat resistance	ASTM-D5147	/	at 95 °C - No flow	/
Water absorption %Wt at 23 °C / 24 hrs	ASTM-D5147	%	< 0,2	/
Water vapour transmission properties	EN 13707	/	μ = 20.000	/

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