



WATERPROOFING

APPLICATIONS

ROOFS

MAMMOUTH NEO ONE

TECHNICAL DATA SHEET 240216SCANE

(supersedes 230928SCANE)

DESCRIPTION

MAMMOUTH NEO ONE is a single-ply membrane composed of biobased TPU (thermoplastic polyurethane) polymer-modified bitumen and a composite reinforcement. The underside of the MAMMOUTH NEO ONE membrane is sanded and, unlike traditional granulated cap sheets, its surface is also covered with sand. Its TPU polymer composition gives it inherent strength to UV rays and therefore to ageing.

INSTALLATION

ADHESIVE

MAMMOUTH NEO ONE is unrolled on the adhesive previously applied using a notched squeegee.

Once the membrane is in place, apply pressure over the whole surface using a membrane roller to ensure a complete and uniform adhesion.

Apply adhesive on the first 100 to 125 mm (4 to 5 in) of the end laps with a notched trowel. Complete the installation by welding the last 25 to 50 mm (1 to 2 in) of the end laps, using an electric hot-air welder and a membrane roller.

Welding must also be done on all side laps. The use of an automatic hot-air welder will increase the speed and quality of the seal.

FOR COMPLETE INFORMATION ON PRODUCT INSTALLATION, PLEASE CONSULT YOUR SOPREMA REPRESENTATIVE.

GENERAL INFORMATION

Specifications	MAMMOUTH NEO ONE
Membrane thickness	3.9 mm (153 mils)
Reinforcement	Composite
Dimensions	10 x 1 m (32.8 x 3.3 ft)
Weight of the roll	50.5 kg (111.3 lb)
Selvedge width	100 mm (4 in)
Selvedge thickness	3.2 mm (126 mils)
Surface	Grey sand
Underface	Grey sand

(All values are nominal)



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PROPERTIES

Properties	Standards	MAMMOUTH NEO ONE	
		BEFORE Heat Conditioning	AFTER Heat Conditioning
Strain energy, min. MD/XD, at 23 °C ± 2 °C (73.4 °F ± 3.6 °F) at -18 °C ± 2 °C (0 °F ± 3.6 °F)	ASTM D5147	7/9.1 kN/m (39.9/51.9 lbf/in) 15/11 kN/m (85.6/62.8 lbf/in)	12/9 kN/m (68.5/51.4 lbf/in) 12/9 kN/m (68.5/51.4 lbf/in)
Peak load, min. MD/XD, at 23 °C ± 2 °C (73.4 °F ± 3.6 °F) at -18 °C ± 2 °C (0 °F ± 3.6 °F)		20/19 kN/m (114.2/108.5 lbf/in) 35/30 kN/m (199.8/171.3 lbf/in)	25/20.9 kN/m (142.7/119.3 lbf/in) 33/29 kN/m (188.4/165.6 lbf/in)
Elongation at peak load, min. MD/XD, at 23 °C ± 2 °C (73.4 °F ± 3.6 °F) at -18 °C ± 2 °C (0 °F ± 3.6 °F)		44/60% 51/46%	60/56% 43/36%
Ultimate elongation, MD/XD, at 23 °C ± 2 °C (73.4 °F ± 3.6 °F)		49/66%	63/59%
Dimensional stability, max. MD/XD		-0.3/-0.1%	
Low temperature flexibility, max. MD/XD		-15/-15 °C (5/5 °F)	-15/-15 °C (5/5 °F)
Low temperature flexibility after UV weathering, max. MD/XD		-12/-12 °C (10/10 °F)	
Compound stability, min.		95/95 °C (203/203 °F)	
Resistance to puncture	ASTM D5602	Pass	

(All values are nominal)

STORAGE AND HANDLING

Rolls must be stored upright, with the selvedge side on top. Do not stack. If the products are stored outdoors, cover them with an opaque protection cover after removal of the delivery packaging.



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2/2