

## SA SMOOTH PLY 40

### BASE PLY MEMBRANE



Self-adhesive base sheet membrane used in the sealing of single-ply or two-ply roofing systems.

- Anti-slip
- Self-sealing
- Excellent resistance to temperature variations

#### PRODUCT PURPOSE

Application	Waterproofing	
Building Part	Roofing	
Types of slope	Low slope	Very low slope
Substrates	Plywood	OSB
	Cement	Asphaltic panel

#### PRODUCT CHARACTERISTICS

Technology	SBS modified bitumen
Surface	Trilaminare woven polyethylene
Underface	Two parts silicone release film (split-back)
Installation Method	Self-adhesive
Service temperatures	-40 °C to 90 °C (-40 ° to 194 °F)
Maximum exposure	90 days

#### PACKAGING

Code	Width		Length		Thickness		Net Area		Brute Area		Units (per pallet)
	m	in	m	ft	mm	mil	m <sup>2</sup>	ft <sup>2</sup>	m <sup>2</sup>	ft <sup>2</sup>	
10167	1	39	20	65	1	40	18	194	20	215	25

#### PROPERTIES

Properties	STANDARDS	SA SMOOTH PLY 40
Tensile strength, MD/XD	ASTM D5147	9.5/13 kN/m (54/74 lbf/in)
Ultimate elongation, MD/XD	ASTM D5147	33 / 25%
Tear resistance, MD/XD	ASTM D1970	423/458 kN/m (95/103 lbf)
Static puncture	ASTM D5602	400 N (90 lbf)
Adhesion to plywood at 4.5 °C (40 °F)	ASTM D1970	500 N/m (34.3 lbf/ft)
Adhesion to plywood at 24 °C (75 °F)	ASTM D1970	1100 N/m (75.4 lbf/ft)
Low temperature flexibility at -30 °C (-22 °F)	ASTM D1970	Pass
Water vapour permeance	ASTM E96 (Procedure B)	< 1.7 ng/Pa•s•m <sup>2</sup> (0.03 perm)
Nail sealability	ASTM D1970	Pass

(All values are nominal)

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### INSTALLATION

Storage	The rolls should be stored upright. If the products are stored outdoors, cover them with an opaque protective cover after removing the delivery packaging. Can withstand frost, but must be reactivated for 24 hours to at least 4.5 °C (39 °F) prior to installation.		
Minimum Application Temperature	4.5 °C (39 °F)		
Complementary Products	EXTERIOR PRIMER	OR H <sub>2</sub> O PRIMER	
Tools Required	 Knife		Tape measure
	 Smoothing roller		
Surface Preparation	The substrate must be clean, dry and free of dust, grease or other contaminants.		
Installation	<ol style="list-style-type: none"> <li>1. If conditions require, prepare the substrate with EXTERIOR PRIMER or H<sub>2</sub>O PRIMER.</li> <li>2. Position the membrane parallel to the edge of the roof, leaving about 8 cm (3 in) beyond the front where the gutter will be installed. If the gutter is in place, install the membrane from the roof edge.</li> <li>3. Remove the protective film on the back in a length of about 30 to 40 cm (12 to 16 in) and fold the protective film 45 degrees on each side. Adhere the exposed portion to the support.</li> <li>4. While applying pressure to the other end of the membrane, gradually remove the protective film using a scrubbing brush (or other accessory), press the membrane firmly to the support while continuing to remove the protective film. First press the membrane in the center, and then to each side.</li> <li>5. Apply further pressure on the membrane using a heavy roller to ensure adhesion between the support and the membrane avoiding formation of bulges, folds or gaps.</li> </ol> <p>Note: The transverse overlap should be 150 mm (6 in) and have a longitudinal overlap of 75 mm (3 in). Refer to ROOF SYSTEM INSTALLATION for waterproofing membrane installation to roof details and upstands.</p>		
Recommendations/ Limitations	It is not recommended to use a product containing bitumen directly on softwood boards or flexible polyvinyl chloride.		

For UL product evaluation, see UL Evaluation ER-21824-01

