

NUDURA Waterproof Membrane

Description:

NUDURA Waterproof Membrane is a self adhesive waterproofing membrane designed for below grade damp proofing and waterproofing applications. It is composed of SBS modified bitumen and a polyethylene woven complex. This surface provides 100 % protection from UV radiation. A silicone release paper protects the adhesive side.

NUDURA Waterproof Membrane can be applied directly the EPS (expanded polystyrene) and the NUDURA ICF forms. Clean, dry and even surfaces generally do not require priming. If specific conditions call for the use of primer, such as dusty work sites, NUDURA recommends using a **polymer emulsion**-based primer called ELASTOCOL STICK H₂O. Solvent-based primers may damage polystyrene and therefore must not be used. The ELASTOCOL STICK H₂O is only available through special order.

Application temperatures: Winter Grade: -10°C to 40°C (14°F to 104°F)
 Summer Grade: 10°C to 50°C (50°F to 122°F)

Service temperatures: Winter and Summer: -45°C to 70°C (-49°F to 158 °F)

Installation:

NUDURA's Membrane needs to be installed vertically onto the wall surface. The surface should be cleaned of all excess foreign debris before applying the membrane. When apply the membrane vertically the overlap needs to be 50mm (2") as per the markings on the edges of the membrane. Should the membrane need to be installed horizontally then the overlap will need to be 150mm (6"). For complete installation instructions please refer to technical bulletins section at NUDURA's web site www.nudura.com.

If needed, apply ELASTOCOL **STICK H₂O** primer at the rate of 0.15 to 0.25 L/m². Allow drying completely before application of the membrane. Membrane must be applied the same day as the application of primer.

To ensure a perfect seal, a trowelled bead of polystyrene foam compatible mastic/adhesive should be installed along the top edge of the membrane and at the termination and/or angle change where the ICF meets the concrete footing. For rocky soil, a protection board (e.g. SOPRABOARD, etc...) must be installed prior to backfilling.

Additional information is available from your local NUDURA distributor.

Properties:

Properties	Standards	NUDURA Waterproof Membrane	
		METRIC	IMPERIAL
Thickness	-	1.0 mm	40 mil
Dimension	-	22.9 x 0.91 m	75 ft x 36 in
Gross / Net coverage per roll	-	20.8 / 19.1 m ²	225 / 206 ft ²
Roll weight	-	20 kg	44 lb
Top face	-	Polyethylene woven complex	
Under face	-	Silicone release paper	
Tensile strength, MD/XD	ASTM D5147	11.3 / 15.4 kN/m	64 / 88 lbs/in
Ultimate elongation, MD/XD	ASTM D5147	52 / 24 %	
Flexibility at cold temperature	ASTM D5147	-30 °C	-22 °F
Static puncture	ASTM D5602	400 N	90 lbs
Tear resistance, MD/XD	ASTM D1876	375 / 400 N	85 / 90 lbs
Lap adhesion	ASTM D1876	2000 N/m	11.4 lbs/in
Peel resistance	ASTM D903	3050 N/m	17.5 lbs/in
Water absorption	ASTM D5147	< 0.1 %	
Water vapour permeance	ASTM E96 (Procedure B)	< 0.90 ng/Pa.s.m ²	< 0.016 perm

(All values are nominal)