

ICF FOUNDATION MEMBRANE

FOUNDATION MEMBRANE



Self-adhesive membrane specially suited for sealing of insulated concrete foundations (ICF).

- Superior adhesion
- UV resistant; 90-day Exposure
- Easy Installation

PRODUCT PURPOSE

Application	Waterproofing	
Building Part	Foundations	
Substrates	Modular concrete form of expanded or extruded polystyrene (ICF)	
	Concrete*	PWF*

*Primer is required on those surfaces. See installation method on next page.

PRODUCT CHARACTERISTICS

Technology	SBS modified bitumen
Surface	Trilaminare woven polyethylene
Underface	Silicone release film
Installation Method	Self-adhesive
Operating Temperature	-45 °C to 70 °C (-49 °F to 158 °F)
Maximum exposure	90 days

PACKAGING

Code	Width		Length		Thickness		Gross Area		Quantity (per pallet)
	cm	in	m	ft	mm	mils	m ²	ft ²	
10046 (With box)	91	36	20.4	67	1	40	18.6	200	25
10045 (Without box)	91	36	20.4	67	1	40	18.6	200	36
10049 (With box) - Low temperature	91	36	20.4	67	1	40	18.6	200	25
10044 (Without box) - Low temperature	91	36	20.4	67	1	40	18.6	200	36

PROPERTIES

Properties	STANDARDS	FOUNDATION MEMBRANE ICF
Thickness	-	1.0 mm (40 mils)
Roll weight – 18 m ² (195 ft ²)	-	20 kg (44 lbs)
Tensile strength, MD/XD	ASTM D5147	11.3 / 15.4 kN/m (64 / 88 lbf/in)
Ultimate elongation, MD/XD	ASTM D5147	52 / 24%
Tear resistance, MD/XD	ASTM D1876	375 / 400 N (84 / 90 lbf)
Cold temperature flexibility	ASTM D5147	-30 °C (-22 °F)
Static puncture	ASTM D5602	400 N (90 lbf)
Lap adhesion	ASTM D1876	2000 N/m (11.4 lbf / in)
Peel resistance	ASTM D903	3050 N/m (17.5 lbf / in)
Water absorption	-	< 0.1%e
Water Vapour Permeance	ASTM E96 (Procédure B)	0.90 ng/Pa•s•m ² (0.016 perm)
Termite Resistance	Rapport Trinity/ERD S10030SC.04.08	Pass

*See Evaluation Report CCMC 13630-R (for waterproofing) and Evaluation Report CCMC 14080-R (for dampproofing).
(Nominal values)

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INSTALLATION	
Storage	Rolls should be stored upright. If the products are stored outdoors, cover them with an opaque protective cover after removing the covers provided at delivery.
Minimum Application Temperature	10 ° C to 50 ° C (50 ° F to 122 ° F) Winter grade: -10 ° C to 10 ° C (14 ° F to 50 ° F)
Required Products	EXTERIOR PRIMER on concrete and PWF only
If conditions required	H ₂ O PRIMER on ICF Forms (see installation details below)
Tools Required	 Smoothing roller  Tape measure
Surface Preparation	ICF FOUNDATION MEMBRANE can generally be installed without primer over clean, dry ICF surfaces requiring damproofing. If ICF FOUNDATION MEMBRANE is intended to be used in areas requiring waterproofing or if specific conditions call for the use of primer, such as high concentration of dust, use H ₂ O PRIMER a waterbased primer. Solvent-based primers (EXTERIOR PRIMER) may damage the polystyrene (ICF) and therefore must not be used.
Installation	<ol style="list-style-type: none"> 1. If conditions require, treat the ICF Foundation with H₂O PRIMER with adequate drying time. EXTERIOR PRIMER is required on concrete and on wood (PWF). 2. Install a gusset (small cut of membrane) on all interior or exterior corners of the foundation that will be covered with ICF FOUNDATION MEMBRANE. 3. Measure the height of the foundation to be covered and cut a membrane strip of this dimension, then cut that part in half to get two strips. 4. Cover the corners of the foundation laying a membrane strip to reinforce the inside or outside angles from the foundation. It is important to position the membrane by sticking one side at a time. 5. Begin the installation from a corner of the foundation, from the top down. 6. Remove a 10 cm (4 in) piece of the paper back from the underface to adhere to the upper portion of the membrane to the support. This will allow the membrane to stick to the foundation by itself. 7. Continue to remove the protective film and press the membrane well, with a rubber roller, to increase adhesion. 8. Provide an overlap of 10 cm (4 in) between each membrane edge (a dotted line on the membrane indicates the overlap area). 9. At the bottom of the wall, the membrane must cover 2/3 of the foundation from the footing. 10. To complete the seal, let the membrane exceed the ground level by 75 mm (3 in) and cover it with a membrane RESISTO STT 150 mm (3 in), centered from the edges. The transition membrane RESISTO STT allows the installation of acrylic finish coatings directly on the surface. When the membrane RESISTO STT is not used, the edge of the ICF FOUNDATION MEMBRANE must be sealed with a bead of sealant / adhesive compatible with polystyrene (such as M-1 from Chemlink) and must be entirely covered by the backfill. The bottom of the ICF FOUNDATION MEMBRANE can be sealed with a compatible sealant. On concrete foundation and PWF, apply RESISTO ELASTOMERIC SEALANT on top of the membrane around the foundation and at the bottom of the footing to prevent water infiltration.
Tricks / Tips	In the case of rocky or clay soils, a protective panel such as a rigid insulation panel must be installed before backfilling (such as SOPRA-XPS). If the substrate is concrete, ensure that the curing period is sufficient before installing the membrane. To install a dimpled membrane over the ICF FOUNDATION MEMBRANE please contact the RESISTO technical service.

