RESISTO

ICF/ FOUNDATION MEMBRANE

WATERPROOFING 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

PRODUCT CHARACTERISTICS

Technology	SBS modified bitumen
Surface	Trilaminate 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		Selvedge Width	Net Area		Brute Area		Quantity (per pallet)
	m	in	m	ft	mm	mils	mm	m^2	ft^2	m^2	ft^2	
10133	0.91	36	22.9	75	1	40	75	19.1	206	20.8	225	25
10134 (Winter grade)	0.91	36	22.9	75	1	40	75	19.1	206	20.8	225	25

PROPERTIES

Properties	STANDARDS	FOUNDATION MEMBRANE ICF
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

(Valeurs nominales)

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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	H_2O PRIMER	**OR** EXTERIOR PRIMER
	AND ELASTOMERIC SEALER	

Tools Required	Smoothing roller		Tape measure

Surface Preparation	When these surfaces are clean, dry and uniform, use of the primer is not necessary. If special conditions require a primer, such as a high concentration of dust, RESISTO recommends using the H_2O PRIMER. Solvent-based primers should not be used because they may damage the polystyrene.
Installation	1. If conditions require, treat the substrate with H_2O PRIMER. EXTERIOR PRIMER is required on concrete. 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, apply an ELASTOMERIC SEALER on top of the membrane (on concrete foundation) around the foundation and at the bottom of the footing to prevent water infiltration. * It is suggested to 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.
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.