

Insulthane® 300R | Closed Cell Roofing Foam

Product Description

Insulthane® 300R is a closed cell, two-component rigid polyurethane spray foam. Insulthane® 300R is designed as a roofing system that provides superior insulation value and creates a light-weight, seamless, watertight barrier when combined with an elastomeric roof coating.

Approvals & Certifications

- UL Evaluated Roofing System - UL ER27036-01
- Complies with ICC-ES AC377

Recommended Applications

- Roofing applications (new and retrofit)
- Tank applications
- Exterior vertical applications

Packaging

This product is available in 55 gallon (208 L) drums.

Application Information

Surfaces must be clean, dry and free of all dirt and contaminants. Humidity should be < 85% RH. The substrate temperature must be greater than 3°C (5°F) above the dew point. Application of material should be no less than 13 mm (0.5 in) and no greater than 38 mm (1.5 in) in a single pass. Allow the core temperature of the foam to cool below 37°C (100°F) before the application of additional passes.

Foam should be applied to full thickness in any given area within the same day. Passes of less than 13 mm (0.5 in) may be required to taper the foam for drainage and achieve acceptable surface finish. The final surface must have a protective coating applied within the same day, or within 24 hours of application to protect the surface of the foam from degradation. Before application, material must be tested on-site to determine the curing, reactivity and performance of the material under site conditions.

It is up to the applicator/contractor to determine the suitability and performance of the material for the project. Other preparation techniques or application information may be required for unique/specialized projects. Contact an Elastochem technical representative for more information.



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Typical Properties

Attribute	Test	Results
Core Density	ASTM D1622	3.04 lb/ft ³
R Value (Aged 90 Day)	ASTM C518	6.93 @ 1 "
Compressive Strength	ASTM D1621	53 psi
Tensile Strength	ASTM D1623	65 psi
Closed Cell Content	ASTM D2856	> 90%
Water Absorption	ASTM D2842	< 2%
Water Vapour Transmission	ASTM E96	1.17 perms @ 1 "
Surface Buring Characteristics	ASTM E84	5 FS
Roof Covering Fire Test	UL 790	Class A System

Liquid Component Properties

Attribute	Isocyanate	Resin
Colour	Brown	Amber
Viscosity	250 cps	700 - 1000 cps
Specific Gravity	1.24	1.20
Shelf Life	12 months	6 months
Storage Temperature	50-90°F (10-32°C)	

Processing Parameters

Attribute	Parameter
Pre-Heater Temperature	"A" and "B" 120-135°F (49-57°C)
Hose Temperature	"A" and "B" 120-135°F (49-57°C)
Pressures	1000-1500 psi (dynamic)*
Mix Ratio	1 to 1 by volume "A" to "B"

Product Reactivity

Processing Designation	Surface Temperature
Fast	60-70°F (15-21°C)
Standard	> 70°F (21°C)

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