

Insulthane® 300P | Closed Cell Pipe Foam

Product Description

Insulthane® 300P is a closed cell, two-component rigid polyurethane spray foam. It is a durable, high-performance insulation solution designed for industrial piping systems. Insulthane® 300P provides superior insulation value and creates a light-weight, seamless, watertight barrier. It is compatible with various pipe materials, including metal, PVC, and copper, making it ideal for environments prone to condensation, temperature fluctuations, and high humidity.

Recommended Applications

- Pipe systems (new and retrofit)
- Tank applications
- Exterior vertical applications

Chemical Storage

Store in a dry location between 10-32°C (50-90°F). Keep drums tightly sealed when not in use. Drums must be stored out of direct sunlight.

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 < 80% RH. The substrate temperature must be greater than 3°C (37°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.

For outdoor pipes, the final surface must have a protective coating applied within the same day or within 24 hours of application. 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. Contact an Elastochem technical representative for more information.

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 Str. 1:1	ASTM D1621	75 psi
Compressive Str. 1:05	ASTM D1621	72 psi
Closed Cell Content	ASTM D2856	> 90%
Water Absorption	ASTM D2842	< 2%
Water Vapour Transmission	ASTM E96	1.17 perms @ 1 "

Liquid Component Properties

Attribute	Isocyanate	Resin
Colour	Brown	Amber
Viscosity	250 cps	800 - 1100 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"

Reactivity Profile (Free Rise)

Attribute	Time @ 25°C (77°F)
Mix Time	4 seconds
Cream Time	4 - 6 seconds
Gel Time	10 - 15 seconds
Tack Free Time	19 - 24 seconds

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