

Insulflow Marine | Polyurethane Pour-in-Place Foam

Product Description

Insulflow Marine is a closed cell, medium-density, two-component rigid polyurethane pour foam. Insulflow Marine is HFO-based and complies with Montreal Protocol blowing agent regulations. It has superior insulation properties and is formulated as a pour-in-place system for marine applications and general cavity fill. Insulflow Marine conforms to the US Coast Guard standard 183.114.

Recommended Uses

- Marine flotation
- Insulated panels and cavities
- General cavity fill

Storage

Store in a dry location between 50-90°F (10-32°C). Keep drums tightly sealed when not in use.

Processing Parameters

Insulflow Marine should be processed through a plural component system at a 1:1 ratio by volume. For hand mixing procedures, contact an Elastochem specialist for more details.

Attribute	Isocyanate	Resin
Mixing Ratio (volume)	100	100
Mixing Ratio (weight)	108	100
Pressure	1000-1500 psi	
Pre-Heater Temperature	95-105°F (35-40°C)	
Hose-Heater Temperature	95-105°F (35-40°C)	

Health and Safety Information

Appropriate literature has been assembled which provides information concerning the health and safety precautions that must be observed when handling this product. Before working with this product, you must read and become familiar with the available information on its risks, proper use, and handling. Information is available in several forms, e.g., safety data sheets and product labels. For further

Typical Properties

Attribute	Test	Results
Free-Rise Density	ASTM D1622	32.36 kg/m ³ (2.02 lbs/ft ³)
R-Value (90 Days)	ASTM C518	6.3 @ 1"
Compressive Strength	ASTM D1621	25 psi
Dimensional Stability @ 70°C, 97% RH @ 100°C @ -40°C	ASTM D2126	< 1% change
Tensile Strength	ASTM D1623	210 kPa (30 psi)
Closed Cell Content	ASTM D6226	92%
Water Absorption (96 Hour Immersion)	ASTM D2842	1.3%

Liquid Component Properties

Attribute	Isocyanate	Resin
Colour	Brown	Clear/Yellow
Viscosity	250 cps	600 - 900 cps
Specific Gravity	1.24	1.12
Shelf Life	12 months	6 months
Storage Temperature	50-90°F (10-32°C)	50-90°F (10-32°C)

Summary of Buoyancy Test Results

Conforms to US Coast Guard Code Article 183.114

Procedure	24 Hours	30 Day
Immersion in gasoline	2.3%	2.5%
Immersion in bilge solution	1.6%	3.2%
Immersion in liquid B	2.1%	2.2%
Immersion in fully saturated gasoline vapour @ 38°C	n/a	2.0%

Reactivity Profile

Attribute	Time @ 25°C (77°F)
Cream Time	25 - 35 seconds
Gel Time	110 - 140 seconds
Tack Free Time	240 - 290 seconds

DISCLAIMER: This data is based on information believed to be reliable and is offered solely for evaluation.

Elastochem Specialty Chemicals Inc.'s products are sold with the understanding that the Buyer determines the suitability of this product for its particular application. Product owner assumes all risk for misuse of the materials. Use of this product is beyond the control of the Seller, the Buyer assumes all risks of use or handling. Elastochem Specialty Chemicals Inc. assumes no liability for mis-application or any other error or omission of applicator. For warranty conditions refer to terms listed in Elastochem Manufacturer's Defect Warranty. Contact your Elastochem representative for more details.



Elastochem Specialty Chemicals Inc.

37 Easton Road Brantford, ON N3P 1J4

1-877-787-2436

www.elastochem.com

