

Physical Properties

Air Leakage (ASTM E-283-91) 0.00022 ft3/s.ft2	Dimensional Stability 158°F 100% R.H. -0.40%	Open Cell Content (ASTM D-6226) >92%
Density (ASTM D-1622 @ 2") 0.50 pcf	Dimensional Stability 158°F Dry -0.20%	R-Value 3.81 per inch
Dimensional Stability (ASTM D-2126) -20°F -0.1%	Fire Performance (ASTM E-84) Class 1, FS <15, Smoke <300	Sound Transmission Class (ASTM E-90) 39, (ASTM C-423) 75

Description

PRODUCT OVERVIEW

Thermal R RT-3090 is an ultra-light two part polyurethane insulation system. It has excellent thermal and acoustical properties. This high yield, open cell spray applied insulation product is suitable for residential and commercial construction industry. Thermal R RT-3090 is water blown foam and does not contain any urea formaldehyde, CFC's or HCFC's. This is a two-component polyurethane foam insulation system processed at a 1:1 by volume. It has a 0.50 pcf spray in place density. This product provides superior energy efficiency and air infiltration control. The product can be used in open wall cavities, crawl spaces, perimeter rim joists, cathedral and garage ceiling.

Usage

Thermal R RT-3090 pcf is designed as a high performance building envelope insulation system for both residential and commercial construction.

Application

The Thermal R RT-3090 pcf foam system is supplied as Resin B and MDI, Component A. We strongly recommend mixing the resin for 10 minutes, or while the hose is heating up. The recommended processing parameters are as follows:

When ambient temperature is between 65-80°F:

- A 120°F
- B 120°F
- H 120°F

When ambient is 80°F and higher:

- A 118°F
- B 118°F
- H 115°F

When ambient is between 30-50°F:

- A 130°F
- B 130°F
- H 120°F

The recommended working pressure should be between 1,000-1,200 psi. Thermal R RT-3090 pcf should be applied in 1" to 4" lifts.

Precautions

FIRST AID:

Inhalation: Remove to fresh air and seek medical attention. See MSDS for more details.

Eye and Skin Contact: Wearing eye protection is required. Polyurethane foam vapors can enter the body through the lungs, eyes and skin. It is important to protect the lungs, eyes and skin from overspray and organic vapors emitted by the foam while it is being applied.

Ingestion: If liquid is swallowed seek medical attention immediately.

STORAGE: The material is recommended to be stored between 50 - 80°F. Store in a dry, well ventilated area protected from freezing rain and direct sunlight. This material has a six-month shelf life under normal storage temperatures.

PERSONAL PROTECTION: All users must wear approved chemical protection equipment. OSHA approved respirators are required. Please see the training manual for more information.

Product Sizes

DRUM, PONY (120 lb)	55 GALLONS (500 lb)	250 GALLONS (2200 lb)
275 GALLONS (2200 lb)		

Limited Warranty

The information herein is to assist customers in determining whether our products are suitable for their applications. We request that customers inspect and test our products before use and satisfy themselves as to contents and suitability. Our products are intended for sale to industrial and commercial customers. We warrant that our products will meet our written specifications. Nothing herein shall constitute any other warranty expressed or implied, including any warranty of merchantability or fitness, nor is protection from any law or patent to be inferred. The exclusive remedy for all proven claims is replacement of our materials, and in no event shall we be liable for special, incidental or consequential damages.

CAUTION: Polyurethane foam produced from these materials may present a fire hazard if exposed to fire or excessive heat (i.e., cutting torches). The use of polyurethane foam in interior applications on walls or ceiling presents an unreasonable fire risk unless protected by an approved fire resistant thermal barrier with a finish rating of not less than 15 minutes. A code definition of an approved "thermal barrier" is a material equal in fire resistance to 1/2" gypsum board. Each firm, person, or corporation engaged in the use, manufacture, production or application of the polyurethane foams produced from these resins should carefully examine his end use to determine any potential fire hazard associated with such product in a specific use and to utilize appropriate precautionary and safety measures. Consultation with building code officials and insurance agency personnel before application is recommended.