



ISOTRYME 2.0

Type

BPI Isotryme 2.0 is a two-component, class 1 rated, spray applied polyurethane foam insulation.



Description

BPI Isotryme 2.0 is a two-component, two pound per cubic foot density spray applied closed cell insulation that exhibits excellent adhesion to most substrates.

Suggested Uses

Residential, Commercial and Industrial Insulation
Hot Tubs

Equipment & Component Ratios

The mix ratio is 1 to 1 by volume. The pre-heater temperatures should be set at 120°F and able to maintain +/- 2°F.

Storage of Raw Product

Shelf life is Six (6) month from date of manufacture when stored indoors, in the original unopened containers and between the temperatures of 50°F – 80°F.





ISOTRYME 2.0



Physical Properties & Building Code Certifications

Property	Values	Test Type
R- Value	5.4 @ 1" 19 @ 3"	ATSM C-518
Core Density	2.0 LB / Cubic Foot	ATSM D-1622
Closed Cell Content	> 95%	ATSM D-2856
Water Absorption	< 2% by Volume	ATSM D-2842
Water Vapor Transmission – Permeance	0.8 perms @ 1" 0.23 perms @ 3.5"	ATSM E-96
Air Impermeable	< 0.02 (L/s-m ²) @ 1"	ATSM E-2178
Tensile Strength (PSI)	60	ATSM D-1623
Dimensional Stability	< 5%	ATSM D-2126
Compressive Strength	47	ATSM D-1621
Building Types	Approved	I, II, III, IV, V-B: Nonstructural Insulation Material
Flame Spread	Class I < 25	ASTM E84 – IAPMO
Smoke Development	Class I < 350	ASTM E84 – IAPMO
ASTM C 1029	Spray Applied Polyurethane Thermal Insulation	Meets or Exceeds Type II

PROCESSING GUIDE

STORAGE/SHELF LIFE: Components “A” and “B” should be stored in their original, unopened containers at temperatures between 50°F and 80°F. Shelf life of unopened, sealed containers is approximately six months under those storage conditions.

EQUIPMENT: Recommended proportioning equipment is manufactured by Gusmer, PMC, Graco, or Glas-Craft. Mixing and ratio by volume is 50 parts A to 50 parts B (1:1). Equipment shall be of the heated, airless type, capable of maintaining 100°F to 140°F at the spray gun. Optimum spraying temperature will vary with type of equipment used, substrate, ambient temperature, and humidity.

GENERAL INSTRUCTIONS: Before the containers are opened, all safety instructions should be read and understood by all personnel who will come into contact with the materials. If the safety instructions are lost or otherwise not available, please contact Burtin Polymer Labs for a replacement. Isotryme 2.0 should only be applied in 1”- 2” passes. This application procedure is in compliance with the SPFA foam applications guidelines. Isotryme 2.0 A and B component in the drum should be @ 75f or > when processing.

A Burtin Polymer Labs Material Safety Data Sheet (SDS) is sent with the original shipment and available upon request. All personnel who come in contact with the product should read and understand the SDS.

PROTECTIVE EQUIPMENT: The “A” component is a polymeric isocyanate and may be sensitizing, particularly from the standpoint of VAPOR INHALATION. The best form of protection against sensitizing vapors in the workplace is a FRESH AIR SUPPLY. Several manufacturers, including 3M company and MSA make full face fresh air masks. For minimum protection, organic vapor canister style respirators shall be worn. To prevent contact with the product, wear fabric coveralls and fabric gloves, full-face mask and OSHA approved protective goggles.

HEALTH AND SAFETY

VAPOR INHALATION problems are characterized by coughing, shortness of breath or tightness of the chest. Anyone exhibiting these symptoms shall be immediately removed from the workplace and administered oxygen or fresh air. If the condition is prolonged or extreme, SUMMON “EMERGENCY TRAINED” MEDICAL ATTENTION IMMEDIATELY.

SKIN CONTACT with liquid components can result in a rash or other irritation. Wash the affected area with water. Wipe residual liquid with a clean soft cloth followed by washing with soap and water. If a rash or other irritation develops, SEE A PHYSICIAN.

EYE CONTACT with liquid or sprayed components can result in corneal burns or abrasions. Upon exposure, eyes should be flushed with water for an extensive period. SUMMON “EMERGENCY TRAINED” MEDICAL ATTENTION IMMEDIATELY.

THE INFORMATION HEREIN IS BELIEVED TO BE RELIABLE, BUT UNKNOWN RISKS MAY BE PRESENT. BURTIN POLYMER Innovations WARRANTS ONLY THAT THE MATERIALS SHALL BE OF MERCHANTABLE QUALITY; THIS WARRANTY IS IN LIEU OF ALL OTHER WRITTEN OR UNWRITTEN EXPRESSED OR IMPLIED WARRANTIES AND BURTIN POLYMER Innovations EXPRESSLY DISCLAIMS ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, OR FREEDOM FROM PATENT INFRINGEMENT. ACCORDINGLY, BUYER ASSUMES ALL RISKS WHATSOEVER AS TO THE USE OF THESE MATERIALS. BUYER’S EXCLUSIVE REMEDY AS TO ANY BREACH OF WARRANTY OR NEGLIGENCE CLAIM SHALL BE LIMITED TO THE PURCHASE PRICE OF THE MATERIALS. FAILURE TO STRICTLY ADHERE TO RECOMMENDED PROCEDURES SHALL RELIEVE BURTIN POLYMER Innovations OF ALL LIABILITY WITH RESPECT TO THE MATERIALS OR THE USE THEREOF.