PRODUCT DATA SHEET

AMBI-TITE 204 (HFO)

Closed Cell SPF System

DESCRIPTION

AMBI-TITE 204 (HFO) is a rigid polyurethane spray foam insulation. The controlled chemical reaction allows for smoother surface and more uniform application over a wide temperature range.

AMBI-TITE 204 (HFO) uses zero ozone depleting potential (ODP) blowing agents.

AMBI-TITE 204 (HFO) shows excellent adhesion to a wide range of substrates typically found in a building construction, as well as air seals and insulates one step.

AMBI-TITE 204 (HFO) meets the intent of the building codes for residential and commercial construction.

REACTION-TO-FIRE

PROPERTY	TEST METHOD	PRELIMINARY VALUE
Surface Burning Characteristics	ASTM E84	**Class 1** **Flame Spread <25** **Smoke Developed <450**
Thermal Barrier *Compliant 2018, 2021 IBS & IRS as an interior finish without a 15-minute thermal barrier.*	NFPA 286	DC 315 @14 wet mils/9 dry mils: **PASS** Fireshell F10E @18 wet mils 12 dry mils: **PASS** Flame Control @14 wet mils 9 dry mils: **PASS** No-Burn Plus ThB @14 mils 9 dry mils: **PASS**

The flammability rating stated in this document is not intended to reflect hazards under actual fire conditions. These ratings are used soley to measure and describe the products response to heat and flame under controlled laboratory conditions.

PHYSICAL PROPERTIES

PROPERTY	TEST METHOD	RESULTS	
Density	ASTM D1622	2.0 lbs.ft^3	
Thermal Resistance	ASTM C518	Initial	6.7 (°F.ft2h/Btu)
Resistance @ 1 inch		90 Days	6.68 (°F.ft2h/Btu)
		180 Days	6.79 (°F.ft2h/Btu)
Compressive Strength	ASTM 1621	>20 psi	
Air Permeance	ASTM 2178	<0.02L/sm^2	
Tensile Strength	ASTM 1623	27 psi	
Open Cell Content	ASTM 6226	<10%	
Dimensional Stability (Aging 7 days)	ASTM 2126	<10%	
Water Vapor Permeance	ASTM E96 PROCEDURE A	Class II Vapor Retarder In Accordance with IBC @ 1inch	0.94 Perms

RECOMMENDED PROCESSING PARAMETERS

	SUMMER BLEND	WINTER BLEND
Primary A-Side Heater	108° - 115° F	108° - 130° F
Primary B-Side Heater	108° - 115° F	108° - 130°F
Hose Temperature	108° - 115° F	108° - 130° F
Processing Pressure	900 - 1200 psi	900 - 1200 psi
Minimum Application	>50° F	>20° F
Ambient Humidity	<85%	<85%
Maximum Moisture of Wood Substrate	19%	19%

This product should only be applied by trained applicators using 1:1 by volume proportioning equipment capable of maintaining the pressures and temperatures as recommended by AMBIT Polyurethane. Like all isocyanate based foams, the chemical reaction varies significantly due to the equipment, environmental conditions, and applicator technique. Applicators should monitor the chemical temperature, pressures and the rate of rising foam to obtain the best yield for optimum performance. Prior to spraying, maintain the chemical temperature inside the drums at 70° - 80° F. Air or mechanical purge guns can be used with this chemical system.

LIQUID COMPONENT PROPERTIES

PROPERTY	AMBIT PMDI-ISO ISOCYANATE (A-COMPONENT)	AMBI-TITE 204 (HFO) RESIN (B-COMPONENT)
Color	Dark Brown	Transparent Yellow
Viscosity @ 75%	150-250 cps	300 - 450 cps
Specific Gravity	1.22 - 1.24	1.11 - 1.15
Storage Temperature	65° - 110°F	55° - 70° F
Shelf Life	One Year (12 months)	Six Months (6 months)
Volumetric Mixing Ratio	100:100	100:100

- Protect from sunlight
- Substrate should be free from oils, grease, frost, water or materials which could affect

FIRE SAFETY

The combination of the A&B components create a chemical reaction that produces heat. Applicators should limit the application of this product to no more than a thickness of 4" per pass (after expansion) to avoid a fire hazard (including spontaneous combustion) resulting from excessive heat generation. If subsequent passes are needed, applicators should wait until the core temperature of the foam has dropped below 100° F to allow any reaction heat to dissipate from the prior applications before attempting to reapply the product. The polyurethane foam produced from this resin is combustible. Do not expose to open flame, welding torches, sparks, etc. Keep the foam at least 3 inches (76 mm) away from heat producing sources. No smoking during product application.

RESPIRATORY PROTECTION

AMBIT Polyurethane requires a full-face mask with supplied air to be used during the application of our spray foam systems. A copy of the Model Respiratory Protection Program developed by CPI can be obtained from AMBIT or by visiting www.polyurethane.org. Read the Safety Data Sheets (SDS for additional information on safe use and handling.

SPILLS AND LEAKS

- Ventilate area to remove vapors and use personal protective equipment
- Contain and cover spilled material with absorbent materials.
- Report spills more than 5,000 lbs. to environmental agencies.
- Wash the contaminated areas thoroughly.

MANUFACTURED BY

AMBIT POLYURETHANE LLC.

2925 Galleria Drive · Arlington, TX 76011

(817) 677-1200 · Info@AmbitPU.com