

PRO poly foam

SF 4230 Series

Spray Foam Roofing Material

Description:

SF 4230 Series is an HFC-blown, Zero Ozone-Depleting (Zero-ODP), spray polyurethane foam (SPF) system designed for roofing applications.

Typical Properties:

<u>PROPERTY</u>	<u>VALUE</u>	<u>TEST METHOD</u>
As Supplied		
Specific Gravity @ 70°F	1.18	ASTM D 1638
Viscosity @ 70°F (cps)	500 - 800	Brookfield
As Cured		
Mix Ratio (volume:volume)	1:1	
Density (pcf)	2.9 – 3.2	ASTM D 1622
Compressive Strength (psi)	55 +/- 5%^	ASTM D 1621
Tensile Strength (psi)	60 – 80	ASTM D 1623
Shear Strength (psi)	40 – 60	ASTM C 273
Closed Cell Content (%)	>90	ASTM D 6226
Aged k-factor (Btu in/ft ² hr °F)	0.158 (R=6.3/in)***	ASTM C 518
Permeance (perms)	1.97	ASTM E 96
Permeability (perm inch)	2.58	
Dimensional Stability (% Volume Change)		
Dry Age 28 Days (158°F)	0.69%	ASTM D 2126
Freeze Age 14 Days (-20°F)	0.25%	ASTM D 2126
<p>** - These physical property values are typical for this material as applied at our development facility under controlled conditions or statistical measurement. SPF performance and actual physical properties will vary with differences in application (i.e. ambient conditions, process equipment and settings, material throughput, etc). As a result, these published properties should be used as guidelines solely for the purpose of evaluation. Physical property specifications should be determined from actual production material.</p> <p>The above data was collected from samples prepared using the following equipment configuration:</p> <ul style="list-style-type: none"> • Gusmer[®] H-20/35 proportioner set at 1:1 volume ratio with 50 ft of heated delivery hose • GX-7 spray-gun configured with a #1 mix module and #70 Pattern Control Disc (PCD) • Process temperature settings: Isocyanate 130°F; Resin 130°F; Hose 130°F • Process pressure: 1000 psig minimum during dispensation <p>Every job site and set of ambient /substrate conditions are different; therefore, one set of process settings may not work for every situation. It is the responsibility of the applicator to evaluate the on-site conditions then choose the appropriate SPF reactivity and process settings.</p> <p>***The chart shows the R-value of this insulation. "R" means resistance to heat flow. The higher the R-value, the greater the insulating power. Compare insulation R-values before you buy. There are other factors to consider. The amount of insulation will depend upon the climate, the type and size of your facility and the fuel use patterns. If you buy too much insulation it will cost you more than what you will save on fuel. To achieve proper R-values, it is essential that this insulation be installed properly.</p>		

Technical Product Data

Safety & PPE:

In addition to reading and understanding the MSDS, all contractors and applicators must use appropriate respiratory, skin and eye Personal Protective Equipment (PPE) when handling and processing polyurethane chemical systems. Personnel should review the following documents published by Spray Polyurethane Foam Alliance (SPFA):

AY-104 Spray Polyurethane Foam Systems for New and Remedial Roofing

AX-171 Course 101-R Chapter 1: Health, Safety and Environmental Aspects of Spray Polyurethane Foam and Coverings.

The following document is available from the Center for the Polyurethanes Industry (CPI):

Model Respiratory Protection Program for Compliance with the Occupational Safety and Health Administration's Respiratory Protection Program Standard 29 C.F.R. §1910.134

As with all SPF systems, improper application techniques such as: excessive thickness of SPF, spraying into or under rising SPF and off-ratio material. Potential results of improperly installed SPF include: dangerously high reaction temperatures that may result in fire and offensive odors that may or may not dissipate. Improperly installed SPF must be removed and replaced with properly installed materials.

LARGE MASSES of SPF should be removed to an outside safe area cut into smaller pieces and allowed to cool before discarding into any trash receptacle.

AIR INTAKE UNITS SHOULD BE SHUT DOWN AND VENTS SEALED DURING POLYURETHANE SPRAY APPLICATIONS.

SPF insulation is combustible. High-intensity heat sources such as welding or cutting torches must not be used in contact with or in close proximity to SF 4230 or any polyurethane foam.

Shelf Life & Storage Conditions:

SF 4230 has a shelf life of approximately three months from the date of manufacture when stored in original, unopened containers at 50-80°F. As with all industrial chemicals this material should be stored in a covered, secure location. Storage temperatures above the recommended range will shorten shelf life. Storage temperatures above the recommended range may also result in elevated headspace pressure within packages.

Limited Warranty Information-Please Read Carefully:

The information herein is to assist customers in determining whether our products are suitable for their applications. Our products are only intended for sale to industrial and commercial customers. Customer assumes full responsibility for quality control, testing and determination of suitability of products for its intended application or use. We warrant that our products will meet our written liquid component specifications. We make no other warranty of any kind, either express or implied, by fact or law, including any warranty of merchantability of fitness for a particular purpose. Our total liability and customers' exclusive remedy for all proven claims is replacement of nonconforming



product and in no event shall we be liable for any other damages, including without limitation special, incidental, punitive, or consequential damages.

Maintenance:

The life of the roof may be extended by regularly scheduled maintenance. A roof should typically be inspected at least twice a year. The roof immediately needs to be inspected following severe weather and extraordinary maintenance on roof-mounted equipment.

Specification Writers: A copy of the Application Specification for this product may be obtained from Progressive Materials Customer Service.

The information reported herein are based upon information reasonably available to Progressive Materials, LLC at the time publication, and are presented in good faith but are not to be construed as warranties or guarantees, expressed or implied.