

TECHNICAL DATA SHEET

Staycell® 245-2.0 Spray Foam Insulation

Product Description

Staycell® 245-2.0 is a two-part, closed-cell polyurethane foam insulation product used to insulate roof decks, ceilings, walls, siding, structural steel or tanks and provides an integral air barrier / insulation / vapor retarder for building envelope assemblies.

Physical Properties

TYPICAL PHYSICAL PROPERTIES*		
	ASTM Method	
Nominal Density	D 1622	2.0 pcf
Compressive Strength	D 1621	35 psi
Tensile Strength	D 1623	55 psi
Closed Cell Content	D 6226	90%
R-Value @ 1.0 inch	C 518	6.5
Water Vapor Permeance (perms)	E 96	
@ 1"		.97
@ 2"		.47
Air Leakage @ 1.0 inch	E 2178	.0036 L/s/m ² @ 75 Pa

* These physical properties are typical for this material as applied at manufacturing facility under controlled conditions. Performance and actual properties will vary with differences in application (i.e. ambient conditions, process equipment and settings. etc). As a result, these published properties should be used as guidelines solely for the purpose of evaluation.

Fire Performance and Ratings



Preferred Solutions, Inc.
7819 Broadview Road
Cleveland, Ohio 44131

Listing No. B1020

Staycell® 245-2.0 Spray Foam Insulation

Fire performance in accordance with ASTM E-84, UL 723 and NFPA 255*:

Tested thickness: 4 inches Class: A Flame spread index: 20 Smoke developed index: 450

*These tests are designed for sample thicknesses up to four inches. UL1715 is a building code recognized test for greater thickness applications.

QAI is accredited by International Accreditation Services, Inc. of the International Code Council for fire testing and quality control inspections of manufacturing facilities. IAS Registration Nos. AA-723 and TL-220.

Building Code Compliance

The numerical flame spread and all other data presented is not intended to reflect the hazards presented by this material under actual fire conditions. The use of foam plastic insulation in interior applications such as walls or ceilings may present a fire hazard unless protected by an approved fire resistant thermal barrier such as ½” gypsum board or as tested as part of a code-compliant assembly. Rim joists/header areas, in accordance with the International Building Code (IBC) and the International Residential Code (IRC), may not require additional protection. Foam plastic insulation must also be protected against ignition in attics and crawl spaces by a code prescribed ignition barrier unless tested as part of a code-compliant assembly. For more information, call Preferred Solutions, Inc. or visit www.iccsafe.org.

Equipment Information

The proportioning equipment shall be manufactured specifically for heating, mixing and spray application of polyurethane foam and be able to maintain 1:1 metering by volume with ± 2% variance. All proportioners shall have adequate main heating capacity to deliver heated and pressurized materials up to 130° F. Heated hose shall be able to maintain pre-set temperatures for the full length of the hose. 2:1 ratio feeder pumps and ¾ inch supply hoses are recommended to transfer material from container to the proportioner.

Recommended equipment (contact PSI for more details):

- Graco Reactor proportioners or equivalent set at 1:1 volume ratio. Contact PSI for specific models.
- Graco GAP or Fusion AP spray gun.
- Graco T2 2:1 transfer pumps or equivalent.

Handling & Storage

Keep containers tightly sealed and stored at 50° to 75°F for maximum shelf life. Storage temperatures must not exceed 85°F. Do not store in direct sunlight. Open the container slowly to allow any pressure to be released before removing the bung. Keep drums tightly sealed when not in use to avoid contamination. Water, solvents or oil in the liquid components will degrade foam quality. Protect from heat, sparks and open flame. Do not cut or weld near this container. Do not smoke near container. Do not store near food or feed.

Shelf Life

Staycell® 245-2.0 has a shelf life of approximately six (6) months from the date of manufacture when stored in original, unopened containers between 50° to 75°F. As with all industrial chemicals, this material should be stored in a covered, secure location and never in sunlight or direct sources of heat. Storage temperatures above the recommended range will shorten shelf life and may also result in elevated headspace pressure within packages.

Limited Warranty Information

The information herein is to provide assistance in determining the suitability of our products for specific applications. Our products are only intended for sale to PSI Authorized Applicators. Customers of our products assume full responsibility for quality control, testing and determination of suitability of products for their intended application or use. We warrant that our products 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 or fitness for a particular purpose. Our total liability and customers' exclusive remedy for all proven claims is to receive replacement of nonconforming products and in no event shall PSI be liable for any other damages.

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