

TECHNICAL DATA SHEET

Staycell® 265 Spray Foam Insulation

Product Description

Staycell® 265 is a two-part, closed-cell polyurethane foam insulation product and is 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.

Benefits:

- Superior insulation performance compared to fiberglass or cellulose
- Controls air and moisture infiltration
- Strengthens roofs and walls
- Environmentally friendly. Utilizes EPA approved, zero-ozone depleting blowing agents

Physical Properties

TYPICAL PHYSICAL PROPERTIES*		
	ASTM Method	
Nominal Density	D 1622	2.0 pcf
Compressive Strength	D 1621	25 psi
Tensile Strength	D 1623	61 psi
Closed Cell Content	D 6226	97%
R-Value	C 518	
@ 1"- 3.49"		6.7
@ 3.5" - 12"		6.9
Water Vapor Permeability (perm inch)	E 96	1.40
Water Vapor Permeance (perms)		
@ 1"		1.40
@ 2"		.70
@ 3"		.47
@ 4"		.35
Air Leakage @ 1.0 inch	E 2178	<.005 L/s/m ² @ 75Pa

* 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.

Building Code Compliance

Staycell® 265 is listed and labeled by Quality Auditing Institute as complying with the 2003, 2006 and 2009 editions of the International Building Code and International Residential Code when installed in compliance with ASTM E-84, UL 723 and NFPA 255 ratings for flame spread and smoke development and UL1715 for acceptable, large-scale fire performance.

Fire Performance and Ratings



US

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

Listing No. B1020

Staycell® 265 Spray Polyurethane Foam Insulation

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

Tested thickness: 4 inches Class: A Flame spread index: 25 Smoke developed index: 350

Fire performance in accordance with UL1715 large-scale, room fire test:

HYBRID System (Staycell® 265 covered with Staycell ONE STEP® 255):

Walls only: Staycell® 265 (base layer) installed at 4 inch or less thickness covered with 1 inch thick Staycell ONE STEP® 255 as the exposed surface layer.

Roofs/Ceilings only: Staycell® 265 (base layer) installed at 8 inch or less thickness covered with ½ inch thick Staycell ONE STEP® 255 as the exposed surface layer.

Walls & Roofs/Ceilings: Not tested

*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.

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 $\pm 2\%$ 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® 265 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. Storage temperatures above the recommended range 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. PSI's technical literature is updated on a regular basis; it is the user's responsibility to obtain and to confirm the most recent version. Information contained in this data sheet may change without notice.

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