

PITTSEAL® 444N^S SEALANT

Product Datasheet

1. Description and Area of Application

PITTSEAL® 444N^S sealant is a specially formulated butyl sealant used for sealing joints in FOAMGLAS® insulation systems, and to seal protrusions and metal jacket laps. It is compatible with a wide variety of coatings.

2. Field Application

Always read and understand information contained within product datasheets and safety datasheets before attempting to use this product. If you have questions regarding fitness of use of this product for a application, consult Pittsburgh Corning LLC.

Substrate Preparation

All surfaces should be dry and free of dust, loose scale, oil, grease and frost. Blocks or joints should be rubbed to obtain good fit before application of sealant.

Environmental Considerations

Facilitate application at low temperature by keeping containers in a heated location or loosen lid and warm by indirect heat. DO NOT heat containers with flame or direct heat.

Cellular Glass Application Guidelines

DO NOT thin. Apply with trowel, knife or caulking gun. Apply sufficient material to both surfaces and press surfaces together firmly to obtain a complete seal.

Joints less than or equal to 3 mm (1/8 inch) are desirable. DO NOT use this or any other sealant to fill large voids from poor fitting insulation.

If a coating is to be applied, cut off any squeezed-out the sealant flush with surface.

When sealing the laps of metal jacketing, maintain a minimum thickness of 1.5 mm (1/16 inch).

Clean up and Disposal

Dispose of excessive sealant and containers in accordance with local, state and federal regulations.



3. Type of Delivery and Storage

- 304 ml (10.3 fl. oz.) cartridges. Twelve cartridges per carton.
- 19 L (5 gal) pails
- Store original, unopened containers in a cool, dry area.
- Protect unopened containers from water, heat and direct sunlight.
- Consult Safety Data Sheet for additional storage and handling information.

4. Coverage

Standard application of sealant to FOAMGLAS® insulation:

- 304 mL (10.3 fl. oz.) cartridge: 1000 cm² x 3 mm (148 in² x 1/8 in.) film.
- 304 mL (10.3 fl. oz.) cartridge: Will produce a bead ~ 7.5 m (~ 24.6 feet) in length and ~ 6.4 mm (~ 1/4 in.) in diameter.
- 19 L (5 gal) pail: 6.25 m² x 3 mm (63.8 ft² x 1/8 in.) film.

5. Typical Properties

PROPERTY ^A	METHOD	SI	ENGLISH
COLOR			Dark Grey
DENSITY		1.40 ± 0.05 kg / L	11.68 ± 0.45 lb / gal
SOLIDS CONTENT, VOLUME			93 %
FLASH POINT		149 °C	300 °F
APPLICATION TEMPERATURE			
MATERIAL		25 ± 15 °C	77 ± 27 °F
SURFACE (MINIMUM)		4 °C	40 °F
SURFACE (MAXIMUM)		38° C	100 °F
SERVICE TEMPERATURE ^B			
MAXIMUM, INTERMITTENT		122 °C	250 °F
MAXIMUM, CONTINUOUS		82 °C	180 °F
MINIMUM		-150 °C	-238 °F
CURE TIME			Non-curing 7 days @ 70 °C (158 °F)
VOLATILE ORGANIC CONTENT (VOC) MAXIMUM LESS WATER AND EXEMPT ^C		80 g / L	0.67 lb / gal
WATER VAPOR PERMEABILITY ^D	ASTM E96 (Wet Cup)	0.00 ng / Pa·s·m	0.00 perm-in

^A Properties subject to change. Consult Pittsburgh Corning LLC.

^B Service temperature limits are derived from laboratory evaluation of the product. Variations in substrates, loading conditions, or other external factors may further limit service temperature. Always consult Pittsburgh Corning LLC FOAMGLAS® Insulation System Specification for suitability for use recommendations for a specific application.

^C Sealant is certified to meet the general requirements for VOC emissions of LEED IEQc4.1 2009 and SCAQMD Rule 1168, July 1, 2005, Adhesive and Sealant Applications, as analyzed by the methods specified in Rule 1168.

^D Tested in a joint with FOAMGLAS® cellular insulation

Sealant is certified to meet stainless steel service requirements of MIL-I-24244, ASTM C795, and NRC Regulatory Guide 1.36

6. Limitations

- DO NOT use in applications where solvent odor could affect food taste or flavor.
- May pick up dust when exposed.
- Solvent may attack some organic foams.
- Product should not be exposed to UV light.
- DO NOT use in areas subject to continuous immersion.

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