PITTSEAL® 444N Sealant

1. Description and area of application

PITTSEAL® 444N sealant is a specially formulated butyl sealant used for sealing joints in FOAMGLAS® insulation systems, and to seal protrusions and metal jacket laps.

This single component sealant is certified to meet stainless steel service requirements of MIL-I-24244 and NRC Regulatory Guide 1.36.

PITTSEAL® 444N sealant is compatible with a wide variety of coatings.

2. Field Application

DO NOT THIN. Apply with trowel, knife or caulking gun. All surfaces should be dry and free of dust, loose scale, oil, grease and frost.

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 in) are desirable.

Do not use this or any other sealant to fill large voids from poor fitting insulation.

Blocks or joints should be rubbed to obtain good fit before application of sealant. 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 1.5 mm (1/16 in) minimum thickness.

Allow to cure one week before placing in hot service. PITTSEAL® 444N sealant works easily over the suggested application range.

To facilitate application at low temperature, keep containers in a heated location or loosen lid and warm by indirect heat. DO NOT HEAT containers with flame or direct heat.

3. Type of Delivery and Storage

296 ml (10 fl. oz.) cartridges. 12 10 oz. cartridges/carton

19 liter (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 joints requires 880 cm^2/cartridge = 3 mm film (136 in^2/cartridge = ⅛ in. film) . One tube will will produce approximatetly 7.3 m (24 ft.) of 6.4mm (¼ in.) dia. bead.

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5. Typical Properties [A]

Property	Test Method	SI Value	Imperial Value
Color:	-	Grey	
Density:	-	1.6 kg /l	13.0 lbs. / gal
Solids Content: % Vol	-	90	
Coverage:	-	880 cm²/cartridge = 3 mm film	136 in²/cartridge = ⅛ in. film
Solvent	-	mineral spirits	
Flame Spread[B]	ASTM E84	5	
Smoke Development[B]	ASTM E84	5	
Application Temperature: °C (°F)			
Material:	-	28 °C ± 7°C	82°F ± 12°F
Surface: (Minimum)	-	4°C	40°F
Surface: (Maximum)		38°C	100°F
Service Temperature:			
Intermittent	-	122°C	250°F
Max.	-	82 °C	180°F
Min.	-	-56.6 °C	-70°F
Volatile Organic Content: (VOC) (max. less water and exempt)		98 g/l	0.82 lbs./gal
Permeability:[B]	ASTM E96 (Water Method)	0.012 ng/Pa·s·m	0.008 perm in.

[A] Properties subject to change. Consult Pittsburgh Corning.
[B]Tested with FOAMGLAS® insulation under application conditions.
[C]Tested under laboratory conditions, 25°C (77°F) @ 50% RH

PITTSEAL® 444N sealant is certified to meet the general requirements for VOC emissions of SCAQMD Rule 1168, July 1, 2005, Adhesive and Sealant Applications, as analyzed by the methods specified in Rule 1168.

PITTSEAL® 444N sealant is chemically acceptable for USDA use in processing or storage areas for meat or poultry food products prepared under federal inspection.

PITTSEAL® 444N 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 apply at temperatures below -18°C (0°F).
Allow sealant to cure at least 2 hours before exposure to water.
Do not use in areas subject to continuous immersion.

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