



FOAMGLAS®

PC® RTV 450 SILICONE ADHESIVE



Description and Area of Application

PC® RTV 450 Silicone Adhesive is a one-part, neutral cure, silicone adhesive formulated for use at high temperatures. It cures to an elastomeric solid at room temperature.

It is particularly suited for use in conjunction with FOAMGLAS® insulation systems that require adhering or sealing FOAMGLAS® insulation to FOAMGLAS® insulation or adhering insulation to hot surfaces.

Type of Delivery and Storage

- 305 ml (10.3 fl oz) cartridges; 12 cartridges per carton
- 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.

Coverage

Standard application of adhesive to FOAMGLAS® insulation:

- 305 ml (10.3 fl oz) cartridge:
880 cm² x 3 mm (136 in² x ⅛ inch) film
- 305 ml (10.3 fl oz) cartridge:
Will produce a bead ~ 7.3 m (~ 24 ft) in length and ~ 6.4 mm (~ ¼ inch) in diameter

Field Application

Always read and understand the 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 an application, consult Owens Corning.

Substrate Preparation

All surfaces should be dry and free of dust, loose scale, oil, grease and frost.

Cellular Glass Application Guidelines

Use a caulking gun to apply adhesive.

DO NOT thin. Cut nozzle to 6.4 mm (¼ inch) or desired bead size. Apply 6.4 mm (¼ inch) diameter beads of sealant in parallel every 10 cm (4 inches) to insulation and press to the substrate using a slight rotary motion.

Five 5-cm (2-inch) diameter daubs of adhesive per insulation block may be used instead of the bead application method.

Joints less than or equal to 3 mm (⅛ inch) are desirable. Do not use this or any other sealant to fill large voids from poor fitting insulation. The mating surfaces of the insulation should be rubbed together to obtain good fit before application of sealant.

If a coating is to be applied, excess sealant should be removed flush with the surface.

Cleanup and Disposal

Allow sealant to cure. Mechanically remove from surfaces.

Discard excess sealant and containers in accordance with local, state and federal regulations.

Limitations

- DO NOT use in applications where solvent odor could affect food taste or flavor.
- DO NOT use in areas subject to continuous immersion.

Typical Properties

PROPERTY ¹	TEST METHOD	SI	ENGLISH
Color		Aluminum	
Density		1.04 ± 0.02 kg/L	8.7 ± 0.2 lb/gal
Application Temperature Material Surface		28 ± 7°C -7 ± 45°C	82 ± 12°F 19 ± 81°F
Service Temperature ² Maximum, Intermittent Maximum, Continuous Minimum		232°C 204°C -100°C	450°F 400°F -148°F
Tensile Strength	ASTM D412	1.31 MPa	190 psi
Elongation at Break	ASTM D412	650%	
Durometer Hardness	ASTM D661 (Shore A)	15	
Cure Time/Rate Skin Over Tack-Free Rate		12 minutes at 25°C @ 50% RH 25 minutes at 25°C @ 50% RH 3.2 mm per 30 hours	12 minutes at 77°F @ 50% RH 25 minutes at 77°F @ 50% RH ¼ inch per 30 hours
Volatile Organic Compound (VOC) Maximum Less Water and Exempt ³		40 g/L	0.33 lbs/gal
Water Vapor Permeability ⁴	ASTM E96 (Wet Cup) ASTM E96 (Dry Cup) EN12086:1997	0.25 ng/Pa·s·m 0.22 ng/Pa·s·m 0.22 ng/Pa·s·m	0.17 perm-in 0.15 perm-in 0.15 perm-in

1 Properties are subject to change. Consult Owens Corning.

2 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 FOAMGLAS® Insulation System Specification for suitability for use recommendations for a specific application.

3 Adhesive is certified to meet the general requirements for VOC emissions of SCAQMD Rule 1168, October 6, 2017, Adhesive and Sealant Applications, as analyzed by the methods specified in Rule 1168.

4 Material tested as a cured disk. When tested in a joint, permeability is too small to measure.

For additional information on FOAMGLAS® Insulation Systems, please contact Owens Corning or visit us at www.foamglas.com.

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