

# PC® RTV 450 Silicone Adhesive PRODUCT DATA SHEET

**FOAMGLAS**  
Industry

IMPORTANT: MATERIAL SAFETY DATA SHEETS ARE AVAILABLE AND SHOULD BE READ BEFORE USING THIS PRODUCT.

## DESCRIPTION:

PC® RTV 450 Silicone Adhesive is a one part, acetoxy cure, silicone adhesive/sealant formulated for use at high temperatures. It is particularly suited for use in conjunction with FOAMGLAS® insulation systems that require adhering or sealing the insulation to it self or to hot surfaces. It cures to an elastomeric solid at room temperature.

## USES:

- Insulation sealant at anchors and guides in underground steam distribution systems.
- Insulation adhesive and sealant on cyclic temperature equipment, reactor vessels, or chambers.
- Insulation adhesive on hot asphalt containment barges.
- Insulation adhesive on hot tank roofs or sidewalls.
- Other: Sealant for flanged pipe joints, appliance flues, sheet metal stacks and ducts, or similar metal-to-metal or metal-to-gasket applications requiring a high temperature, flexible adhesive/sealant.

## \*TYPICAL PROPERTIES:

PROPERTY	
Color:	Aluminum
Temperature Range, °C (°F):	-45 to 204 (-50 to 400)
Intermittent Temp, °C (°F):	232 (450)
Tensile Strength, kg/cm <sup>2</sup> (psi)	24.6 (350)
Density, kg/l (lbs/gal.):	1.03 (8.6)
Durometer Hardness, Shore A:	25
Tear Strength, kg/cm (lb/in):	5.4 (30)
Elongation (ASTM D412), %:	400
Tack Free, min:	15*
Full Cure, hrs:	24*
Life Expectancy, yrs:	33+
Physical Properties (cured):	Rubber
Volatile Organic Content (VOC):	30 g/l (0.25 lb./gal)
[Complies with SCAQMD VOC limits specified in Table 1 of USGBC LEED® for New Construction & Major Renovation v2.2 (IEQ Credit 4.1) for sealants]	

\*Lab conditions, 25°C (77°F) at 50% RH -typical properties at time of printing, subject to change.

## MEETS SPECIFICATIONS:

USDA, MIL-A-46106A (Type II)  
ASTM C920

## APPLICATION INSTRUCTIONS:

- Remove dirt, grease or moisture from the surfaces to be adhered or sealed.
- Cut nozzle to 6.4 mm (1/4 in.) or desired bead size.

-Use caulking gun to apply adhesive.

-Apply 6.4 mm (1/4 in.) bead of silicone adhesive 10 cm (4 in.) on center to FOAMGLAS® insulation block and press to the substrate using a slight rotary motion. Five 5 cm (2 in.) diameter daubs of silicone adhesive per insulation block may be used instead of the bead application method.

-Cure time is approximately 24 hours at 25°C (77°F) at 50% relative humidity. The actual cure time will depend on the degree of air contact. In full air contact, the adhesive forms a tack free skin in 15 minutes

## LIMITATIONS:

Not recommended for underwater use.  
Do not use on concrete or mortar.

## PACKAGING:

355 ml (10 fl. oz.) cartridges (12/case)

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## Pittsburgh Corning

800 Presque Isle Drive Pittsburgh, PA 15239-2799 USA

Toll Free: 800-545-5001

Phone: (724)327-6100 Fax: (724)387-3806

<http://www.foamglas.com/>

## Pittsburgh Corning Europe S.A./ N.V.

(EMEA Headquarters)

Albertkade 1

3980 Tessenderlo

Belgium

Phone: +32-13-611-415 Fax: +32-13-351-567

## Pittsburgh Corning (Asia Headquarters)

Park Luxe Hongo 1001

29-4, Hongo 2-Chrome, Bunkyo-Ku

Tokyo 113-0033 Japan

Tel/Fax: 81.50.7554.0248