

PC[®] 88 ADHESIVE

Product Datasheet

1. Description and Area of Application

PC[®] 88 adhesive is a two-part adhesive for bonding FOAMGLAS[®] insulation pieces or blocks together, or for bonding FOAMGLAS[®] insulation to other porous or nonporous substrates. Air curing is not required. It has excellent wetting characteristics and cures to form a flexible bond that absorbs mechanical and thermal shock.

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 an application, consult Pittsburgh Corning LLC.

Substrate Preparation

Surfaces must be free of moisture, loose scale and rust, dust, oil and grease. Asphaltic primers, coal tars, silicones, alkyd or other solvent sensitive or thermoplastic primers or coatings should not be used. Some acceptable primers are zinc rich, polyester and epoxy. If in doubt, always check surface for adhesion before starting work with a test piece. Apply a small insulation piece and let cure for a minimum of 24 hours. Insulation pieces should break before adhesive peels from surface.

Insulation pieces should be checked for fit to the substrate surface before adhesive is mixed or work started. Insulation pieces must be reshaped or cut smaller if they do not fit.

Environmental Considerations

Temperature of adhesive, substrate and the ambient temperature will affect working time and cure. Higher temperatures reduce working time, viscosity and cure. Lower temperatures increase viscosity and lengthen the working time and cure.

Mixing Guidelines

For best results always have the substrate ready for use prior to mixing.

Make sure equal number of containers of Component 1 [19 liter (5 gal) pail] and Component 2 [0.4 liter (12 oz.) polyethylene bottle] have been received and are on the job site.

Proper mixing of the PC[®] 88 Adhesive is essential for a successful application. Mix Component 1 two to three minutes before adding Component 2. A 19 mm (3/4 inch) heavy duty drill and good mixing paddle is required. The recommended mixer paddle for a 19 liter (5 gal) pail is available from Pittsburgh Corning LLC. DO NOT use ribbon type mixing paddles or any type of mixing paddle that may entrain air into the adhesive mixture.



Add Component 2 to Component 1 and mix for approximately 5 minutes. Move mixer around inside the pail. Incomplete mixing can lead to incomplete cure and residual odors.

Cellular Glass Application

Adhesive may be applied to either or both surfaces. Application to the rougher surface (i.e., FOAMGLAS[®] insulation) generally gives the best results. Apply adhesive with a notched trowel having a square notch of 6.4 mm (1/4 in.) deep, 3.2 mm (1/8 in.) wide with a 6.4 mm (1/4 in.) flat surface between notches available from Pittsburgh Corning LLC.

Adhesive must be spread and blocks applied within the working time and before adhesive sets. Adhesive that has set cannot be recovered. On curved or overhead surfaces, temporary support and/or the HOLD CATALYST system may be needed.

On low temperature equipment, all joints must be completely sealed with adhesive and all voids must be completely filled as possible. Joints should be sealed and any exuded adhesive wiped off before adhesive sets. Adhesive on the face of the block may cause coating adhesion problems. If insulation is to be coated, blocks should be rubbed down to provide a uniform surface.

Trowels should be cleaned frequently and examined for wear. Clogged or worn trowels can cause either too little or too much adhesive being used. Additional coats of adhesive must be applied within 8 hours to assure bonding to the previous coat. If adhesive has cured more than 8 hours, rub briskly with a commercial gloss remover or abrade before recoating.

Clean up and Disposal

Always dispose of excess adhesive and containers in accordance with local, state and federal regulations.

3. Type of Delivery and Storage

- 15 L (4 gal) kit: Component 1: 15 L (4 gal) in a 19 L (5 gal) pail, Component 2: 296 ml (10 fl. oz.) in a 355 ml (12 fl. oz.) polyethylene bottle
- 7.6 L (2 gal) kit:¹ Component 1: 7.6 L (2 gal) in a 11.4 L (3 gal) pail, Component 2: 148 ml (5 fl. oz.) in a 355 ml (12 fl. oz.) polyethylene bottle
- For domestic ground shipments, Component 2 is shipped inside the Component 1 container.
- For International or Air shipments, Component 1 and Component 2 are shipped separately.
- Store adhesive out of direct sunlight and at temperatures as close to 25 °C (77 °F) as possible and for at least 2 hours before use.
- Consult Safety Data Sheet for proper storage and handling.

4. Coverage

Standard application of adhesive to FOAMGLAS[®] insulation:

- One 15 liter (4 gal) kit will cover 7.5 m² (80 ft²)
- Standard application requires 2 L / m² (5 gal / 100 ft²)

¹ 7.6 L (2 gal) kit available for international shipment only.

Figures do not include losses.

5. Typical Properties

PROPERTY ^A	METHOD	SI	ENGLISH
COLOR			Black
DENSITY		1.08 ± 0.07 kg / L	9.0 ± 0.6 lb / gal
SOLIDS, VOLUME			94 ± 2 %
FLASH POINT ^B	TCC	> 39 °C	> 102 °F
COMBUSTIBILITY (CURED)			Combustible
APPLICATION TEMPERATURE			
MATERIAL		28 ± 7 °C	82 ± 12 °F
SURFACE, MINIMUM		5 °C	41 °F
SERVICE TEMPERATURE ^C			
MAXIMUM		82 °C	180 °F
MINIMUM	FOAMGLAS® to FOAMGLAS®	-150 °C	-238 °F
MINIMUM	FOAMGLAS® to metal	-180 °C	-292 °F
SOFTENING POINT		100 ± 20 °C	212 ± 36 °F
WORKING TIME		90 minutes @ 25 °C (77 °C)	
WATER VAPOR PERMEABILITY ^D	ASTM E96 (Wet Cup)	0.01 ng / Pa·s·m	0.01 perm-in
	ASTM E96 (Dry Cup)	0.00 ng / Pa·s·m	0.00 perm-in
	EN12086:1997	0.00 ng / Pa·s·m	0.00 perm-in

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

^B Component 1 unreacted.

^C 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.

^D Material tested as a cured disk.

6. Limitations

- Do not use as exterior coating exposed to sunlight or to be re coated.
- Keep closed when not in use.
- Do not use where odor could affect food.

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