

# PC<sup>®</sup> 88 ADHESIVE

## Product Datasheet

# FOAMGLAS<sup>®</sup>

Pittsburgh Corning

## 1. Description and Area of Application

PC<sup>®</sup> 88 adhesive is a two part adhesive for bonding FOAMGLAS<sup>®</sup> insulation pieces or blocks together, or for bonding FOAMGLAS<sup>®</sup> 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 a particular application, consult Pittsburgh Corning.

### 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.) can] have been received and are on the job site.

Proper mixing of the PC<sup>®</sup> 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. 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.

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 oz) in a 355 ml (12 oz) can
- 7.6 L (2 gal) kit: Component 1: 7.6 L (2 gal) in a 11.4 L (3 gal) pail, Component 2: 148 ml (5 oz) in a 355 ml (12 oz) can
- 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 m<sup>2</sup> (80 ft<sup>2</sup>)
- Standard application requires 2 L / m<sup>2</sup> (5 gal / 100 ft<sup>2</sup>)

## 5. Typical Properties

PROPERTY <sup>A</sup>	METHOD	SI	ENGLISH
COLOR			Black
DENSITY		1.08 ± 0.07 kg / L	9.0 ± 0.6 lb / gal
SOLIDS, VOLUME			94 ± 2 %
FLASH POINT <sup>B</sup>	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 <sup>B</sup>			
MAXIMUM		82 °C	180 °F
MINIMUM	FOAMGLAS <sup>®</sup> to FOAMGLAS <sup>®</sup>	-150 °C	-238 °F
MINIMUM	FOAMGLAS <sup>®</sup> 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 <sup>C</sup>	ASTM E96 (Wet Cup)	0.007 ng / Pa·s·m	0.005 perm-in
	ASTM E96 (Dry Cup)	0.002 ng / Pa·s·m	0.001 perm-in
	EN12086:1997	0.002 ng / Pa·s·m	0.002 perm-in

<sup>A</sup> Properties are subject to change. Consult Pittsburgh Corning.

<sup>B</sup> Component 1 unreacted.

<sup>C</sup> 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.

The information contained herein is accurate and reliable to the best of our knowledge. But, because Pittsburgh Corning Corporation has no control over installation workmanship, accessory materials or conditions of application, NO EXPRESSED OR IMPLIED WARRANTY OF ANY KIND, INCLUDING THOSE OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, IS MADE as to the performance of an installation containing Pittsburgh Corning products. In no event shall Pittsburgh Corning be liable for any damages arising because of product failure, whether incidental, special, consequential or punitive, regardless of the theory of liability upon which any such damages are claimed. Pittsburgh Corning Corporation provides written warranties for many of its products, and such warranties take precedence over the statements contained herein.

Pittsburgh Corning Corporation

To contact by phone or email:

Global Industry Headquarters  
800 Presque Isle Drive  
Pittsburgh, PA 15239 USA

For web-based Sales and Technical  
Service inquiries, please visit  
[www.foamglas.com](http://www.foamglas.com).

Industrial & Commercial Sales

Americas

+1 724 327 6100

+1 800 545 5001

Asia-Pacific

Singapore: + 65 9635 9184

China: +86 (0) 21 6140 8002

Japan: + 81 50 7554 0248

Europe, Middle East & Africa

+32 13 661 721

Technical Services

Americas & Asia Pacific

+1 800 327 6126

[Foamglastechnical@pghcorning.com](mailto:Foamglastechnical@pghcorning.com)

Europe, Middle East & Africa

+32 13 611 468

[Industrytechnical@foamglas.com](mailto:Industrytechnical@foamglas.com)