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## PC® 136 ADHESIVE PRODUCT DATA SHEET

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

### DESCRIPTION:

PC® 136 adhesive is a reactive cementitious product that is mixed with water to form an inorganic, noncombustible adhesive or coating for fabricating, or bore coating.  
PC® 136 adhesive is normally used at ambient and above temperatures to 900°F (482°C) where stress-crack corrosion is a concern with stainless steel.

### \*TYPICAL PROPERTIES:

Color:	Gray
Appearance	Dry fine powder
Density, lbs/ft <sup>3</sup>	46 to 52
Application Temp °F (°C):	40 – 100 (4 - 38)
**Set Time, 77°F (25°C), mins:	20 – 30
Service Temp, °F (°C):	-100 to 900 (-73 to 482)
Water Vapor Transmission:	Not Available
pH:	Alkaline
Combustibility:	Incombustible wet or dry

\* Properties subject to change. Consult Pittsburgh Corning Corporation

\*\* Will vary with batch size, temperature and mixing ratio.

### SPECIFICATION COMPLIANCE:

Will meet the requirements of NRC 1.36 and MIL-24244 specifications if chloride and fluoride levels of mixing water are acceptable.

Materials containing chloride, fluoride, mercury, zinc or other low melting metals should not be added.

### ESTIMATING:

The working time and quantity of product used may vary depending on cell size, application method, and temperature. Therefore, the figures listed below are estimated quantities. The suggested quantities are offered as a guide to the user and should not be relied upon as absolutes.

Fabrication Joint Adhesive: 34lbs. to 35lbs. powder/100ft<sup>2</sup>  
Bore Coating: 9lbs. to 10lbs. powder/100ft

### TOOLS AND EQUIPMENT:

Hand mixing is usually sufficient. A plastic coated straight mixing paddle (similar to what paint stores provide) is recommended. Containers and tools should be plastic. Brushes should be disposable bristle type. Have sufficient tools and containers available. Clean tools and containers with water before adhesive sets.

### SURFACE PREPARATION:

Check substrate surfaces for flatness, adhesive cannot make up for poor surface uniformity. FOAMGLAS® insulation should be free of loose dust. Lay out work before mixing adhesive

### MATERIAL PREPARATION:

Store in a dry area. Lumpy material should not be used. The volume mix ratio for fabricating is 3.0/1 (powder/water). Powder and water may be mixed in a container and applied by tool as a slurry. It is NOT recommended that powder and water be mixed on the block surfaces. The proper powder/water ratio is important. The volume mix ratio for bore coating is approximately 2.5/1 (powder/water).

For slurry application, add powder to water and mix until desired consistency. Use immediately. Cold water will delay set, hot water will accelerate set.

Once adhesive sets, it cannot be recovered.

### JOINT FABRICATION:

Apply slurry to both faces. A Type "A" notch trowel is useful in getting the proper coverage rate. Application to both faces is necessary for the required adhesive. Provide any needed support and don't move piece until adhesive sets. Assembled pieces can be cut a day after assembly. Adhesive sets by chemical reaction, not by drying.

### BORE COAT APPLICATION:

Check FOAMGLAS® insulation for fit and clearance to allow for pipe expansion and bore coat. Hot work should be loose fitting. Apply to bore with brush or other suitable applicator. Cells should not be filled and a continuous coating is not needed. A salt and pepper appearance is sufficient. Remove any lumps or excess adhesive from all surfaces before adhesive sets.

### CLEAN UP AND DISPOSAL:

Adhesive will set under water. Do not wash or discard into sewer. Clean up with water before adhesive hardens. Set adhesive must be mechanically removed.  
Set adhesive can be land filled. Powder should be mixed with water before discarding to landfill.

### STORAGE:

To achieve maximum shelf life, store unopened containers in a dry area.

### LIMITATIONS:

Do not use for permanent bonding of FOAMGLAS® insulation to other materials without first contacting Pittsburgh Corning Corporation for more information.  
Adhesive is not a vapor barrier. Some coatings may blister over cured adhesive

**PACKAGING:** Available in 45 lb (20.4 kg) pails



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**CAUTION:**

This material is intended to be used only with FOAMGLAS® insulation and in conformity with Pittsburgh Corning's standard instructions. Be sure you have read and understand all instructions and Material Safety Data Sheets before using. Material Safety Data Sheets should be considered part of this product data sheet.

**INGREDIENTS:**

**CAS #**

Tetracalcium Silicate	12168-85-3
Dicalium Silicate	10034-77-2
Tricalcium Aluminate	12042-78-3
Tetracalcium Aluminoferrite	12068-35-3
Calcium Sulphate	13397-24-5

IARC Cancer Review: Group 2A; Animal Sufficient Evidence; Human Limited Evidence  
Irritation to eyes, skin and respiratory systems may occur upon prolonged and repeated exposure. Coughing, shortness of breath, liver effects

Avoid prolonged and repeated contact with skin. Impervious rubber gloves are recommended.

Wash hands after use.

Avoid contact with eyes. Wear eye protection.

**HARMFUL OR FATAL IF SWALLOWED.**

**FIRE HAZARD CLASSIFICATION:**

Health: 1 Fire: 0 Reactivity: 0

**KEEP OUT OF REACH OF CHILDREN**

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