

PC[®] H.T. Anti-Abrasive and Adhesive

Product Datasheet

FOAMGLAS[®]

Pittsburgh Corning

1. Description and Area of Application

PC[®] H.T.A.A. is a dry one-component mix of modified calcium sulphate with some inert mineral fillers.

PC[®] H.T.A.A. is applied on FOAMGLAS[®] cellular glass to reinforce its surface for high temperature applications and when needed for dual temperature applications. When dry it forms a hard surface protection filling the surface cells of the insulation and protects them against abrasion. Even at very high temperatures this film remains resistant to abrasion and can be used up to +430°C.

PC[®] H.T.A.A. is used as an adhesive to prefabricate shells, segment and elbows from -268°C up to +430°C.

2. 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

The surface should be clean, dry and free from all traces of grease, rust, dust, oil, and moisture.

Mixing Guidelines

- Mix PC[®] H.T.A.A. progressive with pure water in the ratio of 6.5 to 7.5 liters of water to 10 kg of Anti-Abrasive powder using a mixer.
- Pour powder into the water and never the opposite.
- Once initial mixing is complete, let stand for two to three minutes.
- Mix a second time and the product is ready for application.

Note

The temperature of the water affects the setting and working time.

Application Guidelines

- Use only clean tools.
- PC[®] H.T.A.A. has a short period of plasticity and stiffens rapidly. It sets - approximately 30 minutes after preparation. It is important not to prepare too large quantities in advance.
- Never add water to a mixture that has already began to set.

Anti-abrasive

The mixture is brush applied on the bore of the FOAMGLAS[®] shells, and these may not be applied on the pipe until the product is completely dry. For pipe insulation shells, it is recommended to choose an inside diameter of 3 to 4 mm larger than the outside diameter of the piping, considering the anti-abrasive layer thickness.



Adhesive

The mixture is applied by brush or trowel on the two surfaces to be adhered together. Press the pieces firmly together and let the assembled piece completely dry before cutting or abrading it.

High temperature reinforced coating

The 1-st layer of the mixture into which the glass fabric PC[®] 150 has been embedded is applied to surface. The 2nd layer of the mixture should be applied before the 1st layer sets.

Clean up and Disposal

Wet product : with water.

Dry product : by scraping.

Type of Delivery and Storage

- PC[®] H.T.A.A. is delivered in polyethylene lined paper bags of 25 kg net.
- Store original, unopened containers in a cool, dry area.
- Shelf life: 12 months
- Consult Safety Data Sheet for additional storage and handling information.

3. Coverage

Standard application to FOAMGLAS[®] insulation:

- Anti-abrasive: 0.4 to 0.8 kg of dry powder per m²
- Adhesive: 1.6 to 2.0 kg of dry powder per m²

Quantities are given as an indication only; they depend to a great extent on the state of surface, the thickness of insulation, the sizes of FOAMGLAS[®] cellular glass slabs, the method of application, the workmanship, etc.

4. Typical Properties

PROPERTY ^A	SI	ENGLISH
COLOR	Dark grey	
TYPE	Gypsum cement with inert fillers	
MIXING RATION	6.5 to 7.5 kg water to 10 kg powder	14.3 to 16.5 lbs water to 22 lbs powder
DENSITY	Powder (dry): 0.7 kg/dm ³ Applied coating/adhesive: 1.0 kg/dm ³	Powder (dry): 43.6 lbs/ft ³ Applied coating/adhesive: 62.4 lbs/ft ³
APPLICATION TEMPERATURE	+5°C to +40°C	+41°F to +140°F
SERVICE TEMPERATURE		
MAXIMUM, CONTINUOUS	+430°C	+806°F
MINIMUM	-268°C	-450°F
WORKING TIME AT +25°C (77°F)	About 30 minutes	
VICAT SETTING TIME AT +20°C (68°F)	Between 60 and 120 minutes	
COMPLETE DRYING BY DRY WEATHER	About 24 hours	
FIRE RESISTANCE	Incombustible	

5. Limitations

- Do not use for permanent bonding of FOAMGLAS® insulation to other materials without first contacting Pittsburgh Corning for more information.
- Some coatings may blister over cured adhesives, or HT reinforced coatings.

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