

---

## 1. DESCRIPTION AND USE

---

PC® 56 ADHESIVE is a two-component solvent free adhesive based on bitumen emulsion improved by synthetic material for component one and cement for component two, these to be mixed in the ratio of 3 part component one with 1 part component two by weight.

PC® 56 ADHESIVE is used

- To adhere FOAMGLAS® cellular glass to itself.
- To adhere FOAMGLAS® cellular glass to concrete.
- As a protective layer for FOAMGLAS®

insulation, reinforced with one or several layers of glass fabric in underground applications.

- As an intermediary layer between the FOAMGLAS® insulation and a cementitious rendering .

- At 10 times diluted solution PC® 56 ADHESIVE is used as its own primer on absorbent surfaces.

PC® 56 ADHESIVE is flexible after hardening, rot-proof and unaffected by water, various salts and light acids.

---

## 2. APPLICATION

---

### 2.1. Surface preparation

The surface to be insulated should be clean, dry and free from all traces of grease, rust, dust, oil, moisture, and scale. If a release agent is present on the substrate, it must be completely removed by washing. Too smooth concrete should be made rougher. Except on non absorbing substrates, one should use a primer composed of one volume of PC® 56 ADHESIVE component one diluted in 10 parts of tap water.

For instance, in the case of 100 m<sup>2</sup> to be primed:

- Take 3 litre of liquid component from the drum dilute them in 30 litre water, take 1 kg of solid component from the drum and eliminate it to maintain mixing ratio in the drum.
- Any other type of primer should be strictly avoided.

### 2.2. Preparation of the adhesive.

To avoid waste and obtain the desired properties, certain procedures must be followed:

- Lay-out work before mixing.
- Temperature affects curing and working time. Service temperature +2°C to +35°C
- Have water and solvent available to soak tools
- Mix the quantity needed directly in drum without exceeding working time.

- The powder component is progressively added to the liquid component and they are mixed in the correct ratio with an electric mixer of 600 W (no-load speed 500 to 1000 rpm) or with air mixer equipped with a stirring paddle until a homogeneous mixture free from powder agglomerates is obtained.

### 2.3. Application method

- PC® 56 ADHESIVE may be applied to one or both surfaces. If applied to one surface only, application on the FOAMGLAS® insulation gives the best results. PC® 56 ADHESIVE can be applied with a notched trowel (size of the teeth: ca. 8 mm) on the whole FOAMGLAS® insulation surface to be adhered or applied with the dab method. When applying as protective or intermediary layer, PC® 56 ADHESIVE is applied with an ordinary trowel.

- Clean tools frequently.
- Keep drums closed when not in use.
- Remove excess adhesive as work progresses.

### 2.4. Cleaning the tools.

If PC® 56 ADHESIVE is still wet, clean with water. If PC® 56 ADHESIVE has cured, use mineral spirits.

---

## 3. AVAILABILITY AND STORAGE

---

### 3.1. Availability

PC® 56 ADHESIVE is delivered in 28 kg pail net. (21 kg emulsion and 7 kg powder)

### 3.2. Storage

It must be protected from frost.

When ambient temperature is high, keep away from the sun, as heat accelerates the setting.

Storage: maximum 6 months.

## 4. PROPERTIES

Type :	bitumen emulsion, improved with synthetic materials
Mix ratio in weight :	3 parts emulsion / 1 part powder (packed in the pail in this proportion).
Service temperature range :	-15°C to +45°C, as an adhesive
Application temperature :	+2°C to +35°C (do not apply on a frozen substrate).
Surface drying time :	ca. 3 hours
Complete drying time :	1 to 3 days, depending on temperature, relative humidity base and layer thickness
Pot life at 20°C :	ca. 90 minutes.
Specific weight when ready to use :	1.2 kg/dm <sup>3</sup>
Consistency :	pasty (can be applied with a trowel).
Colour :	black.
Water vapour diffusion resistance Factor :	$\mu = \text{ca. } 40,000$
Softening according to ring and ball method :	minimum 95°C
Dry contents :	ca. 74%
Solvent :	none

The given physical properties are average values measured on products before leaving factory. They can be influenced by insufficient stirring or mixing, the application method, the thickness of the layer and the atmospheric conditions during the application and after it, more specifically temperature, relative humidity, sun, wind... The setting times are especially susceptible to these conditions.

## 5. COVERAGE

As an adhesive : 2.1 to 3.4 l/m<sup>2</sup>.  
 As an intermediary layer : ca. 1.7 l/m<sup>2</sup>.  
 As a reinforced protective layer : ca. 2.1 l/m<sup>2</sup>.  
 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, and the workmanship.

 The innovative insulation people	Pittsburgh Corning GmbH (Austria)	Pittsburgh Corning Nederland B.V.	Pittsburgh Corning Schweiz A.G.	FOAMGLAS® Península Ibérica	Pittsburgh Corning Scandinavia ab.
	Deutsche Pittsburgh Corning GmbH	Pittsburgh Corning UK Ltd.	Pittsburgh Corning Norway	Pittsburgh Corning Italy	Pittsburgh Corning France S.A.
Pittsburgh Corning Europe is also represented in: Croatia, Czech Republic, Denmark, Greece, Hungary, Poland, Rumania, Russian Federation, Slovak Republic, Slovenia, Ukraine and Africa.					