PC® 56
bitumen cold adhesive

1. Description and area of application

PC® 56 is a solvent-free two part - component adhesive.
Component 1 is a bitumen-based emulsion and the second component is a cementitious powder.
Mixing ratio by weight: 2.75 parts of component A, 1 part of component B.
PC® 56 is used for adhering FOAMGLAS® slabs to concrete, masonry, bonding two layers of FOAMGLAS® slabs together, or as a surface coating on FOAMGLAS® slabs. This product is not to be used on timber substrates.

2. Application

2.1 Preparation of the substrate

The substrate must be clean, dry and free from grease, rust, dust, oil, moisture, and peeling paint. Surfaces contaminated with formwork oil must be pre-treated accordingly. Renderings should be sound and well bonded. On a porous surface apply a primer consisting of either diluted PC® EM (1/10) or 1 Part volume of the liquid component of the PC® 56 bitumen emulsion component diluted with 10 parts of water.

2.2. Preparation of the adhesive and application procedure

To avoid waste and to maintain the desired properties, certain basic rules must be observed:

- Curing and application time are influenced by the temperature (guide value ≈ 120 – 180 min).
- Application temperature + 5 °C to + 35 °C (not on a frozen substrates).
- Have water and white spirit available to clean the tools.
- Mix the complete contents within the container. It is not acceptable to decanter and partially mix the adhesive.
- The powder component must be continuously added in the stated ratio to the liquid component and carefully stirred using an electric drill with a paddle (750 W, idle run 500 to 1000 r/min) until a homogenous and lump-free mixture is created.
- Use the adhesive immediately after mixing:
  DO NOT add water to thin down the mixture or it will not cure correctly.
  DO NOT stir the adhesive after the original mixing or it will not cure correctly.
- PC® 56 can be applied to one or both surfaces that are to be bonded together. If applied on one side, apply the adhesive to the FOAMGLAS® Slabs and not the substrate. PC® 56 can either be spot bonded or applied over the entire surface of the Slabs with a notched stainless steel trowel (notches should be at least a depth of 8-10 mm). In some applications with FOAMGLAS®-READY BOARDS and FOAMGLAS®-BOARDS, the PC® 56 can be spot bonded with 8 evenly distributed 8 spots on the surface. A stainless steel trowel is used to coat the surface of the FOAMGLAS® Slabs.
- Tools should be cleaned regularly.
- It is important to remove any excess adhesive from the surfaces of FOAMGLAS® prior to application.

2.3. Cleaning the tools

If the adhesive is still fresh, clean with water; if it is already dry, use white spirit.

2.4 Product Safety Notice

All safety data sheets (SDS) are available. They aim to ensure a safe handling of the product and correct disposal.

3. Availability and storage

PC® 56 is supplied in a 28.1 kg container (net content) – consisting of 20.6 kg of emulsion and 1 bag 3.75 kg of a cementitious powder.

- Store cool and dry in a closed container between +5 and 35°C.
- Protect against heat and direct sunlight.
- The adhesive must be protected from frost.
- Minimum shelf life: 1 year

4. Consumption

Full bonding using a notched trowel: 3.5 – 4.5 kg/m^2 only for Slabs
Spot bonding: approx. 2.5 kg/m^2 only for BOARDS and FOAMGLAS® Slab XL (120x60cm)
As surface coating: approx. 1.5 kg/m^2 (Slabs)
As reinforced surface coating: approx. 2.5 kg/m^2 (Slabs)
These quantities are for guidance only; the quantities quoted depend on the condition of the substrate, the thickness of the FOAMGLAS® slabs, the application and site conditions, etc.

5. Key data

Type	Two-component adhesive, hydraulic binding
Basis	Component A: bitumen emulsion Component B: special cements, calcium carbonate, quartz sand
Consistency	Pasty
Service temperature	- 15 °C to + 45 °C at friction-locked adherence
Application temperature (air + basis surface)	+ 5 °C to + 35 °C (not on frozen substrates)
Application time	at 20 °C: app. 3 hours
Drying time	Approx. 3 - 6 hours
Dehydration time	Several days
Mass density	approx. 1.05 kg/dm^3
Colour	Black-brown
Water solubility	Insoluble after complete drying
Solvents	None
Reaction to fire (EN 13501-1)	E
Giscode	BBP 10

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6. Mixing tool

- Mixing spindle