

PC[®] 56

bitumen cold adhesive

1. Description and area of application

PC[®] 56 is a solvent-free two part - component adhesive. Component A is a bitumen-based emulsion and component B is a powder.

Mixing ratio by weight:

3 parts of component A, 1 part of component B.

PC[®] 56 is used for adhering FOAMGLAS[®] slabs and boards to concrete, masonry or wood, bonding two layers of FOAMGLAS[®] slabs or boards together or as a surface coating on FOAMGLAS[®] slabs.



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 form-work 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 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:

- Setting and application time are influenced by the temperature (guide value ≈ 60 - 90 min.)
- Application temperature + 5 °C to + 35 °C (not on frozen substrates).
- Mix the complete contents within the container. It is not acceptable to decanter and partially mix the adhesive.
- Use the right mixer and mixing spindle. see point 6: Mixing tools
- Open the bucket and remove the powder bag. Remove the inner tray and the protective foil.
- Stir the emulsion during 10 - 15 seconds at a low speed.
- Add the powder component all AT ONCE in the stated ratio to the liquid component.
- Mix the powder in the emulsion starting with a HIGH SPEED (450-600rpm loaded speed) during approx. 2 to 3 minutes to obtain an homogeneous mixture.
- An interruption during the mixing is NOT ALLOWED
- Use the adhesive immediately after mixing. DO NOT add water to thin down the mixture, or it will not cure correctly.
- Stir the PC[®]56 manually with a trowel on a regular base to obtain a longer pot-life.
- 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 to 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 case of FOAMGLAS[®] boards for some applications the adhesive can also be divided into 8 even parts (= 8 spots) on the surface.
- When applied over the entire surface as a glue or a coating, the PC[®]56 has to be distributed and leveled in one smooth movement. Avoid to go more than two times over the glue with the notched trowel.
- A stainless steel trowel is used to coat the surface of the FOAMGLAS[®] slabs.
- Tools and mixing spindle should be cleaned regularly.
- It is important to remove any excess adhesive from any surfaces of FOAMGLAS[®] which are to be coated with a render.

2.3 Cleaning the tools

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

2.4 Product Safety Notice

All material safety data sheets (MSDS) are available.

They aim to ensure a safe handling of the product and correct disposal.

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3. Availability and storage

PC[®] 56 is supplied in a 28 kg container (net content) – consisting of 21 kg of emulsion and 7 kg of a cementitious powder.

- Store cool and dry in a closed container.
- Protect against heat and direct sunlight.
- The adhesive must be protected from frost.

4. Consumption

Full bonding using a notched trowel: 3.5 – 4.5 kg/m² only for slabs

Spot bonding: approx. 2.5 kg/m² only for BOARDS

As surface coating: approx. 1.5 kg/m² (slabs)

As reinforced surface coating: approx. 2.5 kg/m²

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: calcium silicates, calcium aluminate, calcium aluminate ferrite
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. 90 minutes
Drying time	approx. 3 hours
Dehydration time	several days
Mass density	approx. 1.20 kg/dm ³
Colour	black-brown
Water vapour diffusion resistance	μ = approx. 40 000
Water solubility	insoluble after complete drying
Solvents	none
Reaction to fire (EN 13501-1)	E
VOC	free
Giscode	BBP 10

The physical properties indicated above are average values, which are measured under typical conditions. These values may be influenced by insufficient mixing, the type of laying, the layer thickness and the atmospheric conditions during and after application. In particular drying times are affected by temperature, air humidity, direct sunlight, wind, etc.

Additional information can be found in our technical data sheets (TDS). Our liability and responsibility are guided exclusively by our general terms and conditions and are not expanded by the statement of our technical documents nor by the advice of our technical field service.

6. Mixing tools

- Mixing spindles:



Mixing machines:

