

PC[®] 58

bitumen cold adhesive

1. Description and area of application

PC[®] 58 is a two part-component modified cold adhesive based on bitumen emulsion without solvents. Can be used as an adhesive and as a coating. In terms of consistency PC[®] 58 is comparable to traditional hot bitumen. After complete drying, the adhesive is flexible and resistant to numerous salty solutions, water and weak acids. PC[®] 58 is used to apply FOAMGLAS[®] slabs to horizontal concrete and porous concrete surfaces. It is also used to coat the surface of FOAMGLAS[®] slabs prior to the application of bitumen based torch-on or self-adhesive membranes.



2. Application

2.1 Preparation of the substrate

The substrate must be clean, dry and free from grease, dust, oil and humidity. A primer coat of PC[®] EM (diluted 1 to 10) is required on the substrate. Alternatively use a diluted liquid component of the PC[®] 58 (diluting rate 1 vol. part of the liquid component, which must be diluted with 10 parts of water).

2.2 Preparing the glue or contact layer

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[®]58 manually with a trowel on a regular base to obtain a longer pot-life.
- PC[®] 58 must be poured out of the container onto the substrate and spread with a rubber squeegee over the width of the FOAMGLAS[®] materials being laid, approx 600mm.
- Dip the edges of the FOAMGLAS[®] slabs in PC[®] 58 to ensure the edges are fully coated.
- Lay the FOAMGLAS[®] slab in the PC[®] 58 adhesive at a distance of approx. 30 mm from the already installed slabs and push diagonally into the open corner so that the joints are completely filled with adhesive and butted up tightly.
- To use as a surface coating; pour the mixed PC[®] 58 on the installed FOAMGLAS[®] slabs and spread over the surface with a rubber scraper. Note: Curing time at 20 °C and 65 % relative humidity is approx 90 min, after which the PC[®] 58 will shed water.
- After complete drying of the surface coating, a bitumen membrane waterproofing can be torch applied. Make sure that the flame uses the bitumen mass of the membrane for adhering. A direct flaming on the coating must be avoided. Alternately a self-adhesive membrane may be applied.
- Tools and mixing spindle should be cleaned regularly.

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 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. Type of delivery and storage

Container with 32 kg (net content) – consisting of 24 kg of emulsion and 8 kg of powder component

- Store in a cool and dry place in well-sealed packages.
- Protect from heat and direct sunlight.
- Protect from frost.

4. Consumption

As glue: approx. 5 – 7 kg/m²

As surface scraping: approx. 2 kg/m²

These quantities are for guidance only; they depend on the properties of the substrate, the thickness of the FOAMGLAS[®] slabs, the application and site conditions, etc.

5. Key data

Type	Two-component adhesive, hydraulically setting
Basis	Component A: Bitumen emulsion Component B: calcium silicates, calcium aluminate, calcium aluminate ferrit
Consistency	pasty
Service temperature	- 15 °C to + 45 °C
Application temperature (air + subsurface)	+ 5 °C to + 35 °C on non-frozen substrates
Application time	at 20 °C: approx. 90 mins
Surface drying time	approx. 3 hours
Depth drying time	1 to 3 days
Mass density	approx. 1.20 kg/dm ³
Colour	black-brown
Water vapour diffusion resistance	μ = approx. 25,000
Water solubility	insoluble after complete drying
Solvent	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, sun irradiation, 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:

