

Product Datasheet

Alumasc PC®58 Foamglas® Adhesive

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Description & Area of Application

Alumasc 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 Alumasc FOAMGLAS® slabs to horizontal concrete and porous concrete surfaces. It is also used to coat the surface of Alumasc FOAMGLAS® slabs prior to the application of bitumen-based torch-on membranes.

Application

Preparation of the substrate

The substrate must be clean, dry and free from grease, dust, oil and humidity, primed with Alumasc Bitumen Primer and allowed to dry.

Preparing the glue or contact layer

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

- Setting and pot life are influenced by the temperature (typically approx. 15-20 mins).
- Application temperature + 5 °C to + 35 °C.
- Have water and solvent ready to clean the tools.
- Mix the whole quantity of adhesive in the PC58 container
- The powder component must be continuously added in the stated ratio to the liquid component and carefully stirred while using an electric or pneumatic mixer (750 W, idle run 500 to 1000 r/min) until a homogenous and lump-free mixture is achieved.
- PC® 58 must be poured out of the container onto the substrate and spread with a rubber squeegee over the width of the Alumasc FOAMGLAS® materials being laid, approx. 600mm.
- Dip the edges of the Alumasc FOAMGLAS® slabs in PC® 58 to ensure the edges are fully coated.
- Lay the Alumasc 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 Alumasc FOAMGLAS® slabs and spread over the surface with a rubber scraper. Note: Curing time at 20 °C and 65 % relative humidity is approximately 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 itself must be avoided.

Cleaning the tools

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

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Delivery & 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.

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.

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.

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Health & Safety

Safety Data Sheets are available upon request, and can also be downloaded directly from www.alumascroofing.co.uk

Technical Support

Technical advice is available from Alumasc Technical Services at:

Telephone: +44 (0)1744 648400

Email: technical@alumascroofing.com

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