PC® 74 A1
one-component glue and base coating

1. Description and area of application

PC® 74 A1 is a mixed mineral component, class CS II according to DIN EN 998-1 for interior insulation. Hydraulic hardening and capillary active.

PC® 74 A1 mixed with water, can be used as adhesive and reinforced skim coating on FOAMGLAS® slabs.

The non-combustible property of PC® 74A1 (building material class A1 in accordance with EN 13501).

2. Processing

2.1 Preparation of the substrate

When using PC® 74 A1 as glue: the substrate in masonry or concrete must be clean, (surface) dry and supporting. Remove soiling substances (e.g. formwork oil, dust) as well as protruding mortar 'snots' with a high-pressure cleaner, where necessary reinforce the surface with primer concentrate.
When using PC® 74 A1 as a coating: After eventual leveling of the FOAMGLAS® slabs by grinding, the surface must be dust free.

2.2 Preparation of the product

The content of the bag of PC® 74 A1, 20 kg, is added approx. 10 liters of clean water and must be stirred homogeneously with a paddle until the right consistency. After a short soaking time, stir once again and if necessary, add more water.

2.3 Application procedure

2.3.1 As a glue :
Use a notched stainless steel trowel (notches 10 x 10mm) to apply the PC® 74 A1 over the whole surface face of the FOAMGLAS® slabs. PC® 74 A1 can be applied in thickness from 3mm to 7mm.
2.3.2 As a coating:
When used as coating, PC® 74 A1 is applied with a stainless steel trowel over the whole width of the reinforcement on the FOAMGLAS® surface. the surface must be flat and true before application of the coating. The glass reinforcement mesh fabric PC® 150 is embedded with an approximate 100 mm overlap and again levelled out so that the mesh surface is flat and true. PC® 74 A1 can be applied in thickness from 3mm to 7mm.

2.4 Cleaning the tools

Cleaning the tools with water immediately after use.

2.5 Additional notes

- Ambient temperatures and surface temperatures must not drop below + 5 °C during application and drying period. Do not apply in direct sunlight. A too quick drying of the PC® 74 A1 as a coating has to be avoided. Protect damageable areas and materials (glass, ceramic, wood, metal etc.) before starting the works.
- Dispersion paint and dispersion silicate paint can be used on it.

2.6 Product Safety Notice

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

3. Type of delivery and storage

Paper bags of 20 kg. Grading: 0.5 mm : 48 bags/pallet

Dry, protected from moisture, shelf life 12 months.

4. Consumption

Grading: 0.5 mm
approx. 1kg / mm / m^2. Example: for a 5mm thick layer you need approx. 5kg/m^2.

5. Key data

Type	Mineral coating and adhesive mass
Basis	graded and dried calcareous and siliceous natural sands, cement, hydrated lime, mineral lightweight aggregates and additives
Consistency	powder
Service temperature	- 30 °C to + 80 °C
Application temperature (air + subsurface)	+ 5 °C to + 35 °C
Application time	approx. 3 to 4 hours
Surface drying time	between 20 mins and several hours (depending on Relative Humidity)
Depth drying time / complete curing	approx. 24 to 72 hours, depending on construction humidity up to 28 days
Mass density mixture	approx. 1 kg/dm3
Colour	light grey
Water vapour diffusion resistance number	$p \leq 25$
Water solubility	insoluble after complete drying
Solvent	none
Reaction to fire (EN 13501-1)	A1
VOC	-
Giscode	-
Water needs	approx. 10 l/bag
Compressive strength	> 1 N/mm^2
Thermal conductivity	approx. 0.27 W/mK
Bond strength	> 0.08 N/mm^2

The physical properties indicated above are average values, which are measured under typical conditions. These values may be influenced by 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.