

# PC<sup>®</sup> 500 one-component glue

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## 1. Description and area of application

PC<sup>®</sup> 500 is a ready-for-use one-component adhesive (Thixotrop) and is used in the FOAMGLAS<sup>®</sup> compact roof system.

### Applications in Building

PC<sup>®</sup> 500 is used for the full bonding and close joints of FOAMGLAS<sup>®</sup> slabs or blocks on roofs and floors with a concrete substrate.

PC<sup>®</sup> 500 is applied with a rubber scraper on the full surface of the bearing substrate.

### Applications in Industry

Cell filler for external surface on FOAMGLAS<sup>®</sup> cellular glass, as a gap filler on open surface cells and as a bedding layer in specific bearing applications.



## 2. Application

### 2.1 Preparation of the substrate

The substrate must be clean, dry and free from grease, dust, oil and humidity. Surfaces soiled with formwork oil, etc., must be pre-treated accordingly. A priming coating, e.g. PC<sup>®</sup> 3A, must be applied as the bonding agent.

### 2.2 Preparing the glue or contact layer

PC<sup>®</sup> 500 glue is a ready-for-use one-component glue. Before use, the container is loosened and activated with a stick with vertical movements (do not mix up the glue). To facilitate the application in cool weather, it is advised to store the adhesive in a heated environment 24 hours before use.

### 2.3 Application procedure

#### 2.3.1 Applications in Building

For gluing on a substrate, the glue is applied on the entire surface with a specially adjusted notched trowel (notches of  $\pm 12$  mm). The adjoining cut surfaces of every slab (side joints) are immersed in the cold glue, previously applied to the substrate. At a distance of about 30 mm, the FOAMGLAS<sup>®</sup> READY BLOCKS are glued with staggered joints, by pressing them down onto the substrate (using a circular motion) and ensuring joints are sealed by pushing cut surfaces together. A bitumen membrane can be torch applied directly on the FOAMGLAS<sup>®</sup> READY BLOCK.

If the container is sealed after usage the remaining adhesive can be used later (a few days to several weeks, depending on the storage condition).

#### 2.3.2 Applications in Industry

As a bedding layer in load bearing conditions: PC<sup>®</sup> 500 is applied with a notched trowel onto the concrete surface, while pressing the FOAMGLAS<sup>®</sup> slabs into the fresh bitumen emulsion. The edges of already applied, adjacent slabs will be coated in order to fill the joints completely.

### 2.4 Cleaning the tools

The devices can be cleaned with solvents as with turpentine oil or fuel.

### 2.5 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, 25 kg net

- Store in a cool and dry place in well-sealed packages.
- Protect from heat and direct sunlight.
- Keep away from open flames and sparks.

### 4. Consumption

#### For applications in Building

As glue (fully bonded): approx. 5.0 – 7.0 kg/m<sup>2</sup>

#### For applications in Industry

As a bedding layer with sealed joints: approx. 6.0 kg/m<sup>2</sup>

As a cell filler: approx. 2.0 kg/m<sup>2</sup>

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

### 5. Key data

Type	One-component glue
Basis	Vegetable oils with a high percentage of fibres and other mineral substances
Consistency	pasty
Service temperature	- 30 °C to + 80 °C
Application temperature (air + subsurface)	+ 5 °C to + 40 °C
Processing time	at 20 °C: several days
Surface drying time	several hours
Depth drying time	several months
Mass density	approx. 1.50 kg/dm <sup>3</sup>
Colour	black/brown
Water vapour diffusion resistance	μ = approx. 20,000
Water solubility	insoluble after complete drying
Solvent	< 5 %
Reaction to fire (EN 13501-1)	-
VOC	-
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.