



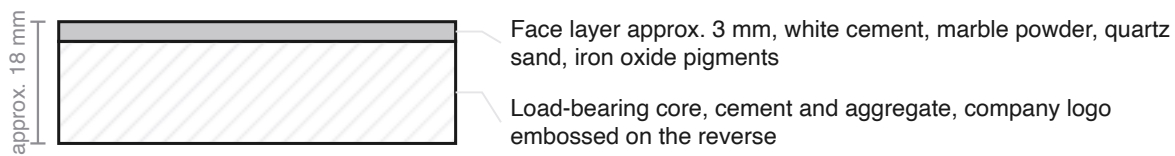
TECHNICAL DATA SHEET

VIA Cement Tiles

Handmade, hydraulically pressed concrete tiles with a coloured face layer

VIA Cement Tiles are hydraulically pressed, unfired concrete tiles with a coloured face layer. They are hand-cast in metal templates and reproduce historical patterns to around 99 per cent of the original.

The tile consists of two layers: a face layer approx. 3 mm thick made of white cement, marble powder and quartz sand with iron oxide pigments, and a load-bearing core of cement and aggregate. Both layers are pressed wet on wet under high pressure and then air-cured for at least ten weeks.



Layer build-up, total thickness approx. 1.8 cm

PRODUCT

Manufacture

- 1 Template**
The pattern is defined by a soldered metal template which is placed into the press mould by hand.
- 2 Face layer**
The colour mixes are poured individually into the chambers of the template, then the template is drawn out.
- 3 Core**
Dry cement mortar is filled in and binds the mixing water of the face layer.
- 4 Pressing**
The tile is hydraulically pressed and thereby gains its strength.
- 5 Curing**
At least ten weeks of air curing. The tile is not fired.

TECHNICAL DATA

Technical Data

Product type	Unfired, hydraulically pressed concrete tile
Face layer	White cement, marble powder, quartz sand, iron oxide pigments
Face layer thickness	approx. 3 mm
Total thickness	approx. 1.8 cm

Reverse	embossed company logo
Weight 20 x 20 x 1.8 cm	approx. 1.5 kg per tile
Weight per area	approx. 37.5 kg/m ²
Packing unit	10 tiles per carton, approx. 15 kg
Curing time at the works	at least 10 weeks
Joint width	1 mm
Field of use	Interior, floor and wall
Standardisation	Not regulated by CE marking or UPEC

A CRAFT PRODUCT

Colour variations, fine pores, hairline cracks in the face layer and slight dimensional tolerances are inherent to the manufacturing process and are not grounds for complaint. They are an expression of craft production and define the character of the floor.

PREPARATION

Delivery, Storage and Preparation

- Store dry and frost-free, do not place cartons directly on damp floors.
- The interleaves in the carton remain in place until immediately before laying.
- Before laying, mix from several cartons so that colour variations are evenly distributed over the surface.
- Keep the tiles dry. Damp tiles darken and dry unevenly.
- Check tiles for breakage, edge damage and pattern orientation before laying.

APPLICATION

Installation

Installation is carried out with VIA Tile Adhesive using the combined buttering-floating method on a primed, level and dry substrate. The joint width is 1 mm. Details are given in the technical data sheet for VIA Tile Adhesive.

Grouting

Grouting is carried out at the earliest three days after laying, using a slurry mixed on site from two parts trass cement and one part VIA Quartz Sand. Ready-mixed grouts are not suitable because their additives leave a grey haze on the absorbent face layer.



Trass cement

VIA Quartz Sand

Grouting slurry, mixed with water to a yoghurt-like consistency

The slurry is worked into the full surface and cleaned off immediately afterwards with clean water and frequently changed rinsing water. Cement haze that is allowed to dry can only be removed with acid, which damages the face layer.

SEQUENCE

Overall Sequence



Guide values at +20 °C. The floor must be completely dry before the surface treatment.

After grouting and cleaning, the surface is given a surface treatment. VIA Tile Oil, VIA Mineral Impregnation and the system of VIA Sealer Primer and VIA Sealer are available. The surface must be dry and clean for this.

SITE PROTECTION

If the surface treatment cannot be carried out immediately, protect the area with VIA protective fleece. The fleece is vapour-permeable and allows the treatment to be postponed by two to three weeks. Plastic sheeting and adhesive tapes are not permitted.

IMPORTANT INFORMATION

Important Information

- Cement-bound tiles are sensitive to water. Standing water and permanent saturation cause the face layer to swell and can trigger fine crazing.
- Do not use acidic or strongly alkaline cleaners. Acid dissolves the cement matrix and permanently dulls the surface.
- Do not use steam cleaners and avoid wet cleaning with standing water.
- Provide dirt trap zones at entrances to keep quartz sand from outside off the floor.
- Not suitable for exterior use or for permanently wet areas.
- With underfloor heating, the heating-up procedure to DIN EN 1264-4 must be documented.

VIA GmbH
Mainzer Straße 33-35
55422 Bacharach, Germany

Tel. +49 6743 9 37 08 0
Fax +49 6743 9 37 08 20

mail@viamaterial.de
www.viamaterial.de

The information is based on our current knowledge and careful testing. It does not constitute a warranty of properties and does not release the applicator from verifying suitability for the intended use. On publication of this edition all previous versions become invalid.

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