

facade ceramic

Processing instructions

Installation work must be carried out by a qualified and experienced tile installer. In addition to these processing instructions, the applicable legal DIN standards and EU directives as well as the processing instructions of the manufacturers of all required products (adhesive, mortar and so on) must be observed. For processing the product in facade systems (suspended ventilated facade, external thermal insulation composite system), observing the processing instructions of the facade system manufacturer is mandatory.

The product has to be stored implicit dry, in the shade, dust- and frost-proof. The product has to be stored in the on site for at least one day so they can adapt to the ambient temperature. The position and technical necessity of building expansion joints and field definition joints must be coordinated with the architect and system and/or product manufacturers and have to use according to the DIN standard 18515-1. Compliance with the processing tolerances according to DIN 18202 is required.

The maximum permissible areas/side lengths must be observed according to the general building inspectorate approvals (ABZ) of the facade system manufacturers. The standard joint width is 8 mm; 10 mm for large formats.

Substrate & preparation

The substrate being tiled must be absolutely smooth, plumb, warp resistant, dry and free of dust. Plaster and reinforced rendering of the mortar group P II, P III or anhydrite floors are suitable substrates. Insulation boards, supporting plates made of drywall, fibrated concrete or wood-based materials may have to be prepared with a reinforced levelling course.

There is a normal requirement for the evenness of the substrate. Highly absorbent substrates must be primed before installation.

Before starting installation, it is strongly recommended to check the color batch, caliber and grading. For a better laying pattern, the material should be taken from different boxes and laid alternately.

The formats must be measured on the wall before gluing. Horizontal and vertical guide lines must also be drawn on which the material can be aligned.

The optimum processing temperature is between 5°C and 30°C, which needs to be maintained consistently during the setting phase. Direct sunlight on the surfaces being worked has to be avoided. Do not process the product below 5°C!

Glueing

A flexible adhesive suitable for the respective area of application must be used. The adhesive is applied with a 8 mm notched trowel. Only the thin-bed method may be used as a combined process in which the adhesive mortar is applied to both the wall surface and the back of the material (buttering-floating).

Full-surface adhesion of the product so that air pockets are excluded is essential. This is made possible by pressing the material into place using jointing rubber. Any mortar residue must be completely scraped out of the joints. The installation instructions of the adhesive mortar manufacturer must be observed.

Grouting

After 7 days drying time the installation is usually grouted using the slurry method. Grout suitable for the respective area of application must be used. Spread the grout into the joints, grouting one small surface at a time. The compound is spread and smoothed out using a rubber-covered smoothing board with movements diagonal to the direction in which the material is laid.

An initial thorough cleaning is essential to ensure easy cleaning and high stain resistance. If a layer of mortar remains on the surface, the flooring can become dirty more quickly. The first cleaning must be carried out immediately after installation using a suitable cleaning agent. The mortar manufacturer's instructions must also be followed here to prevent the grout from washing out and to remove the excess material easily and completely.

Final cleaning

After a few days, the construction site dirt must be cleaned with a sponge, a brush or, for larger areas, by machine. A neutral cleaning agent diluted in warm water should be used for this purpose. Then wipe with plenty of warm, clean water until no residue or dirt remains.

Care

The material is characterized by very low water absorption and is generally resistant to stains, acids and bases. Only hydrofluoric acid can be harmful. The material requires simple care and can be cleaned with clean, hot water or with professional care products such as FZ Nettoyant intensif from Lithofin.

Standards & directives

DIN 18157-1	Execution of ceramic claddings using the thin-bed method
DIN EN 12004	Mortar and adhesive for ceramic tiles and slabs
DIN 18352	Tile and slab work
DIN 18515-1	Exterior wall claddings - Tiles or slabs fixed with mortar
DIN 18540	Sealing of exterior wall joints in building construction with joint sealant
DIN 18202	Dimensional tolerances in building construction
DIN EN 14411	Tolerances for ceramic tiles and slabs
ZDB data sheet	Movement joints in claddings and coverings made of tiles and slabs

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This technical data sheet replaces the previous version. It provides information about the product properties and fields of application. Delta Elements has compiled all recommendations with due diligence according to the state of the art. Numeric information may deviate within the general tolerances for production technology reasons. The list of standards and directives merely serves as an overview with no claim of completeness. This technical datasheet does not constitute any guarantee in regards to the recommendations provided. Delta Elements assumes no liability and refers to its general business terms and conditions. No rights can be derived from the contents of the technical datasheet. The respective current version and the general business terms and conditions are available at www.deltaelements.eu; printing errors reserved.
