

## Terrazzo clay Item No. 04.100-04.599

- New technology!
- For individual room design



Terrazzo example natural Jura



Terrazzo example natural grey



Ready mix for terrazzo clay floors, also suitable for underfloor heating systems. Terrazzo clay revives the traditional and elegant Italian polished floor technique. The material has a unique look and feel. The colours offered make every floor an experience. Terrazzo clay is a special design material, and working with it is also challenging. Please do not hesitate to contact us!

## Terrazzo clay

### Item. No. 04.100-04.599

**Field of application** Terrazzo floors inside residential buildings, as a screed for underfloor heating systems.

**Composition** Coloured, mixed-grain natural stone grain sizes 0-16 mm (oversized grain up to 22 mm possible), building clay, coloured clays and loams, cellulose fibres, methyl cellulose ≤ 1%.

**Colours** Terrazzo clay is available with light-grey and beige grains as well as a project-related matrix in earth-red, earth-yellow, earth-green and earth-grey tones.

**Material properties** Dry bulk density approx. 1,700 kg/m<sup>3</sup> (thermal conductivity W 1.5 W/mK,  $\mu$  5/10)

**Supply form** Project-related, earth-moist mixed in 1.0-t Big Bags

**Storage** Protect against dehydration or humidification by weather.

After delivery, which can be shortly after its production, the Terrazzo clay must be used within 2-4 weeks, depending on the weather. In winter, earth-moist goods must be stored so they are protected from freezing, otherwise workability during frost is impaired.

**Material needs** A Big Bag yields approx. 0.60 m<sup>3</sup> of finished Terrazzo screed.

**Preparation** Add approx. 10 % of water and stir thoroughly with pug mill mixers or double-shaft hand mixers.

**Substrate** The substrate composition must be such that prolonged moisture penetration during drying does not lead to damage. Terrazzo clay has no capillary action. If there is any contact to the ground, PE or bitumen layer as well as anti-capillary mineral filling materials (foamed glass) are needed beneath the structure to prevent any rising damp on the underside of furniture etc.

**Installation and drying** The substrate is installed in a malleable consistency with a thickness of approx. 60 mm and ends approx. 20 mm below the later surface of the floor. A glassfibre mesh is inserted into the wet surface of the substrate (e.g. Vitrulan SD5509K2/53 a. 230 g/m<sup>2</sup>). Because the material is installed with no applied pressure, underfloor heating system lines can be embedded without this leading to problems. The substrate can be dried quickly with the help of the underfloor heating system and this is recommended, even with high supply temperatures.

The topcoat is installed in a thickness of approx. 20 mm and should be 2-3 mm thicker than the floor rails and connections of the finished floor area. The topcoat can be dried quickly but under control with a heater. Drying cracks of 2-3 mm are normal.

The topcoat can be tested for complete dryness by knocking a small hole for sampling and investigating the material that is removed by kiln drying at 40°; the practical moisture content should be ≤ 3%. The material that is removed can be remixed and used to fill the hole.

**Sanding and surface** Sanding is carried out with a dry sanding machine (CLAYTEC rental equipment) using diamond pads.

The shrinkage and sanding cracks can be filled with clay filler (CLAYTEC 13.511) or colour clay surfacer (CLAYTEC 50. ... - 57. ...) and can be matched to the Terrazzo colours exactly if necessary. Sand again after drying. Further intermediate filling and sanding can be carried out if required until the planned result is achieved.

The final treatment is with deep penetrating primer and stabiliser (CLAYTEC 13.405-.400). Once this has dried, treat and polish with a floor oil.

**Reserves** We recommend that you keep some terrazzo material (dry) of the identical colour and perhaps also the clay filler for minor repairs during the construction phase and later utilisation phase. Depending on the size of the defects that have to be repaired, coarse additives may have to be screened out.

**Notes** Floors where the tread is to be made of clay can only be executed by specialist companies experienced in the production of such floors. Working with terrazzo clay requires a high level of knowledge and skill. We will be happy to provide professional advice and help during the execution work.

You should always prepare samples to assess the optical appearance. On account of the natural difference in colour of the clay and additives, deviations in the colour of terrazzo clay are not usually regarded as grounds for a complaint. We undertake to ensure the best possible colour continuity.

For instructions on working with this product see:

