

Rammed earth

Item No. 02.004, 02.008, 02.100,
02.200, 02.400, 02.600

- Original and pure clay construction
- Fascinating appearance
- For walls and floors



Natural FINE
rammed earth



Natural rammed earth



WHITE rammed earth



YELLOW rammed earth



RED rammed earth



GREY rammed earth

Rammed earth ready mix for walls and floors. Rammed earth construction is clay construction in its archaic and pure form. The raw material is directly formed into a monolithic construction element. The main reason that this ancient construction technique was rediscovered was because of the aesthetic and expressive power of the heavy monolithic components and their surfaces. Natural fine rammed earth is for covering rammed earth floors. The finer grain makes it easier to produce a floor surface. The compacted material can then be oiled or fixed and finished with wax.

For technical consulting service teams
and sales see www.claytec.de/en
Product data and application
see reverse

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Type of clay product Rammed earth (STL) according to 3.2 of the "Clay building rules" of the Dachverband Lehm (German clay construction trade association).

Field of application Rammed earth for load-bearing and non-load-bearing clay walls; fine rammed earth for clay floors.

Composition Building clay, mixed-grain stony additives. Grain size 0-16 mm (oversized grain up to 22 mm possible).
Fine rammed earth 02.008 grain size 0-8 mm (oversized grain up to 16 mm possible).

Material properties Dry bulk density approx. 2,300 kg/m³ (thermal conductivity 1.5 W/mK, μ 5/10), compressive strength 2.0 N/mm², drying shrinkage natural 0.5% (rammed earth, white, yellow, red and grey as well as 02.008 fine rammed earth 0.7%), building material class A1

Supply form Earth-moist in 1.0 t Big Bags

Storage Protect against dehydration (clumping together) or humidification by weather. Can be stored for long periods.

Check the moisture and homogeneity (workability) of the building material before starting work.

Material needs A Big Bag yields approx. 0.45 m³ of finished wall component.

Processing, execution Walls: The rammed earth is filled into sufficiently strong formwork in 10-15 cm thick layers and compacted evenly up to its maximum by hand or machine. **Load-bearing walls are planned and dimensioned in accordance with the "Clay building rules" of the Dachverband Lehm (German clay construction trade association). Walls may only be made under the instruction and supervision of an expert with sufficient experience in the construction of load-bearing clay building components.**

Floors: Rammed earth is applied in layers onto a clean and rigid base (concrete slab) and compacted evenly by hand or machine up to its maximum.

Drying walls The drying time depends on the installation thickness, season and weather. Subsequent processing may only be carried out after it has dried sufficiently.

Subsequent processing Building components are usually provided with protection against the weather. Exterior plaster mortar and execution are described in Worksheet 1.1. CLAYTEC clay undercoat plaster, clay topcoat plaster, coarse or mineral clay plaster are suitable interior plasters. They should be used in accordance with Worksheet 6.1 "Clay plasters".

Floors: Uneven surfaces can be reworked with a trowel applying high pressure. Surface treatments with hard wax for floors or hard oil plus hard wax for floors improve the surface strength. **Test the effect first on a sample area.**

Notes Further information can be found in CLAYTEC Worksheet 1.1, available at www.claytec.de (Downloads, Worksheet Archive.)

Working with rammed earth requires a high level of knowledge and skill. We will be happy to provide professional advice and help during the execution work.

If it necessary to perform extra moistening or homogenisation of the rammed earth, this is not grounds for complaints.

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

Damages caused by the weathering of areas that have not been plastered or lined are not grounds for a complaint either.