

Coarse clay topcoat plaster



Item No. 05.010, 05.210, 05.012, 10.112

DIN 18947

- The classic clay topcoat
- Rustic straw surface



One-coat topcoat plaster for indoor use. On clay undercoat plaster, sufficiently level masonry and other solid materials. The thickness of application is between 6 mm and 10 mm. Clay topcoat plaster with straw is the mortar for every surface texture, from rustic to smooth. The short-cut straw serves only a decorative purpose on the surface, it makes the plaster smooth and easily workable even for novices. The plaster is painted with ClayFix clay paints.

Earth-moist mortar is exceptionally resource-saving; the dry mortar keeps indefinitely and can also be used with plastering machines.



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Current version available at
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Clay plaster mortar - DIN 18947 - LPM 0/2 f - S II - 1,8

Application Type of clay plaster mortar Clay plaster mortar for use as plastering mortar. Earth-moist 05.010 and 05.210, dry 05.012 and 10.112.

Applications One-coat topcoat plaster for indoor use. Manual or machine plastering. On ClayTec clay undercoat plaster, suitable masonry and solid building materials.

Composition Building clay up to 5 mm, mixed-grain washed sand 0-2 mm.
Grain classification, oversize grain according to DIN 0/2, < 7 mm. Barley straw fibres up to 10 mm.

Country of origin Germany

Material properties Drying shrinkage 2.5 %. Strength class S II. Bending tensile strength 0.7 N/mm². Compressive strength 2.0 N/mm². Adhesive strength 0.15 N/mm². Abrasion 0.6 g. Gross density class 1.8. Thermal conductivity 0.91 W/m·K. μ value 5/10. Building material class A1. Vapour adsorption class WS III. Microbial quality class MBK11b (earth-moist), MBK1b (dry).

Supply form, coverage

Earth-moist 05.010 in 1.0 t Big Bags (yields 600 l plaster mortar, 60 m² area at thickness = 1.0 cm. Approx. 1.67 kg/m² per mm plaster thickness)
Earth-moist 05.210 in 0.5 t big-bags (yields 300 l plaster mortar, 30 m² area at thickness = 1.0 cm. Approx. 1.67 kg/m² per mm plaster thickness)
Dry 05.012 in 1.0 t Big Bags (yields 625 l plaster mortar, 63 m² area at thickness = 1.0 cm. Approx. 1.60 kg/m² per mm plaster thickness)
Dry 10.112 in 25 kg bags (yields 16.7 l plaster mortar, 1.7 m² area at thickness = 1.0 cm. Approx. 1.50 kg/m² per mm plaster thickness), 48 bags/pallet

Storage Store in a dry place. Earth-moist, clay topcoat should be applied no later than 3 months after manufacture. In the case of dry goods, unlimited storage is possible. **Naturally moist material should be protected from freezing during winter storage, as otherwise its workability will be impaired during periods of frost.**

Mortar preparation Add approx. 10–15 % (earth-moist) or approx. 18–20 % (dry) of water with standard rotary drums, turbomixers and pug mill mixers, in small quantities also with the motor agitator or by hand. Information on the use of plaster machines can be found at www.claytec.com.

Plaster base Clay plasters adhere only by mechanical force. The substrate must be stable, frost-free, dry, clean, free of salt, sufficiently rough and absorbent. If a primer is necessary, RED primer (ClayTec 13.435-430) is suitable. Clay undercoat plaster must be completely dry. If necessary, the substrate may be moistened first (with a spray) to bind surface dust.

Application method The mortar may be applied with a trowel or sprayed on with a plastering machine. Minimum and maximum application thicknesses are 6 and 10 mm respectively. The surface structure depends on the time of application and the tool used. In principle, the more the plaster mortar has set by the time the surface is worked, the finer the structure will be. Rubbed surfaces are created using a sanding board of sponge, plastic or wood. Smooth surfaces are achieved by post-treatment with a spreader.

Working time Since no chemical setting process takes place, the material remains workable for several days if kept covered. It can be kept in plaster machines and hoses for the same length of time.

Drying After application, it is essential to ensure that drying takes place rapidly, e.g. by means of cross-ventilation (all windows and doors kept open 24 hours a day) or drying equipment. Under critical conditions, drying must be documented in accordance with DIN 18550-2. Details can be found there or in the ClayTec 'Clay plasters worksheet'. We will be happy to provide separate information. The basic microbiological contamination of Naturally-moist goods 05.010 and 05.210 is subject to continuous monitoring; compliance with certain values cannot be guaranteed.

Subsequent processing Due to the varying properties of the natural raw materials, no color consistency can be guaranteed. Clay topcoat fine 06 is generally painted, also to strengthen the surface. This is done with ClayTec clay paint 'ready to use't (ClayTec 13.005) or with the ClayFix clay coating system.

Sample application In all cases, the suitability of the primer and thickness of application must be tested by means of a sample application of sufficient area.

Claims for compensation that do not result from factory mixing errors are excluded.
Subject to change and errors excepted. As of 2026/8.