Product sheet

Clay thin-bed mortar

Art. 10.150

- **For load-bearing and non-load-bearing walls**
- **For vertically perforated clay bricks**
- **For vertically perforated bricks**
- **For KS and lightweight concrete blocks**

ClayTec clay thin-bed mortar is an ecological adhesive for load-bearing clay masonry up to building class 5, brick masonry up to building class 4, and for non-load-bearing masonry of any kind. It offers the same performance as conventional fired binders while being environmentally friendly and gentle on the skin. Its water solubility allows for reversible bonding: clay bricks, sand-lime blocks, or lightweight concrete blocks can be dismantled and separated by material type at the end of the building's life cycle and reused. This makes these high-performance solid building materials part of a circular economy. ClayTec offers advanced system solutions for circular interior construction.

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Product data and application see reverse

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Application Thin-bed mortar as a dry ready-mix for bonding sufficiently level masonry units and plan blocks for load-bearing clay brick and brick masonry using the thin-bed method, in accordance with the general building approval / general type approval Z-17.6-1306 and general type approval Z-17.11-1327.
Suitable for non-load-bearing interior masonry without fire protection requirements.

Composition Sand up to 1.0 mm, clay, talcum, perlite, plant fibers, and cellulose.

Building material values Grain size group, max. grain size 0/1, < 2 mm, bulk density class 1.6, drying shrinkage 0.4 %, strength class M 2.5, compressive strength 3.8 N/mm²;
Characteristic shear bond strength[1]) with vertically perforated clay brick 0.04 N/mm²,
Characteristic shear bond strength[2]) ith vertically perforated brick 0.04 N/mm²,
Characteristic shear bond strength[3]) with molded clay brick 0.23 N/mm²,
Characteristic shear bond strength[3]) with vertically perforated brick 0.20 N/mm²;
µ-value 5/10, thermal conductivity 0.73 W/m·K, building material class A1.2

Yield One 25 kg bag yields approximately 17 liters of mortar for about 18 m². Masonry bonded in stock joints from 4 or 8 DF-blocks, wall thickness 11.5 cm, or for approximately 12 m² masonry bonded in stock joints from 12 DF-blocks, wall thickness 17.5 cm.

Storage Proper dry storage indefinitely possible.

Mortar preparation The 25 kg dry mass is gradually mixed with 8.5-9.0 liters of clean water using a suitable mixer. Processing consistency should be pasty for application using a thin-bed mortar sled, mortar roll, or application roller. After 30 minutes of maturation, mix thoroughly again. The mortar is now ready for application.

Processing The stones of the masonry must be dry, dust-free, clean, frost-free, and sufficiently absorbent. Do not process the mortar at temperatures < 5 °C. At high temperatures, the mortar may set unusually quickly. Thin-bed mortar is applied without voids to the bearing surfaces of the plan blocks in approximately 2 mm thickness, the following layer is immediately set into the freshly plastic mortar layer.

Hardening The hardening time depends on the absorbency of the masonry stones and the climatic conditions; during the drying time, the masonry must not be exposed to frost. The masonry must be protected from moisture during and after drying.

Claims for compensation that do not result from factory mixing errors are excluded. Subject to change and errors excepted.
As of 2025/12.

[1]) according to AbZ / ABg Z-17.6-1306
[2]) according to ABg Z-17.11-1327
[3]) according to testing