

Technical data sheet. purclay 333 – Fine clay plaster

Product Description

purclay 333 is a factory-mixed clay plaster made of specially selected clay and mineral aggregates with a grain size of up to 0.8 mm. purclay 333 does not contain any chemical additives and meets the requirements for clay plaster mortar according to DIN 18947 - LPM 0/1 - S II - 1.8. purclay 333 has excellent heat storage capacity, a very good ability to absorb and release moisture and therefore has a climate-regulating effect. purclay 333 is therefore ideal for the preservation of listed buildings and for renovation work. purclay 333 can be applied both as a base coat and designed in a wide range of surface variations. Can only be used in dry indoor areas.

> Technical data and characteristics

Standardisation	DIN 18947 – LPM 0/1 – S II - 1,8
Yield as per standard	approx. 630 l/t approx. 42 m ² /t with 15 mm application thickness approx. 1.2 m ² per 30 kg bag
Consumption	approx. 24 kg/m ² with an application thickness of 15 mm
Water requirement	approx. 7 l per 30 kg bag
Minimum/maximum plaster thickness	5 mm - 8 mm / 20 mm (depending on substrate)
Compressive strength, dry	≥ 1.5 N/mm ²
Flexural strength, dry	≥ 0.7 N/mm ²
Bulk density class	1.8
Drying shrinkage	< 2.0%
Grain size	0– 0.8 mm
Grain oversize	< 1.4 mm
Thermal conductivity (table value)	λ _R approx. 0.4 W/mK
Water vapour diffusion resistance factor	μ = 5/10
Fire performance	Construction material class A1, non-flammable

> Logistics and safety instructions

Form of delivery	Bag and silo
Storage	purclay 333 in bags can be stored for an unlimited period if stored dry and protected.
Safety instructions	See safety data sheet; purclay 333 does not pose any particular hazard.

Information

This product data sheet contains advice to the best of our knowledge and replaces all previous product data sheets. Its content, however, is not legally binding.

Surfaces

purclay 333 can be applied to walls of all kinds, to concrete and to plaster bases. The plaster base must be dry, clean, secure and free from separating agents. On concrete and smooth/non-absorbent surfaces we recommend the use of our mineral bonding mortar bauprotec RHS. On critical substrates, in the case of material changes in the substrate and in the case of surface cuts, a flat reinforcement must be embedded in the base plaster.

Processing and Processing Time

purclay 333 is suitable for processing in all common plastering machines (e.g. G 4, G 5, m3, S 48 etc.) and can be conveyed in all common conveyor systems.

For manual application, purclay 333 is stirred with an electric stirrer and mixed for a sufficiently long time.

In the case of larger unevenness in the substrate (e.g. quarry stone masonry), the depressions must be filled. On highly absorbent substrates, the plaster is applied in two coats "fresh on fresh". After application in the appropriate plaster thickness, the plaster is levelled, sanded with a rendering plane and then felted with a fine sponge disc. Free surface design is possible as an alternative. After complete drying, sweep off loose grains.

The maximum application thickness for single-layer application on absorbent substrates is 20 mm, for non-absorbent or slightly absorbent substrates 5 - 8 mm. When applying multiple layers of plaster, the previous layer must be well roughened, bright and completely dry. The application thickness per layer should not exceed 20 mm for absorbent substrates. The maximum plaster thickness depends on the substrate.

Clay plaster that has already dried can be reworked by adding water.

Clay plaster hardens by drying, so ensure good ventilation and rapid drying immediately after application.

After complete drying, purclay 334 can be used to produce a surface (e.g. felted), which only needs to be fixed or coated due to the low abrasion resistance typical of clay. Silicate paints, clay paints and clay filler or other interior wall paints that are open to vapour diffusion are suitable coatings. Coating with ceramic tiles is not permitted.

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Important Notes

- Observe plaster thickness
- Pay special attention to immediate drying of the clay plaster
- Do not process at a subsurface temperature or ambient temperature below +5 °C or above +35 °C, respectively.
- Embed reinforcement in case of material changes in the substrate.
- Observe the generally accepted codes of practice during processing.
- For concrete or other low-absorption substrates use a mineral bonding mortar.

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