Technical Data Sheet

weber.therm 500

Bondcoat for insulating renders

Mineral dry mortar for preparation of render substrates

Fields of application

As bondcoat for high-porosity masonries or masonries with different porosity prior to the application of the insulating renders **weber.therm 505 HDP** or **507** within the system **weber.therm** insulating render.
It improves the adhesion of the insulating render onto the substrate or reduces the absorption behaviour of the substrate. Its properties are matched to those of the insulating render.
For use outdoors and indoors.

Description

weber.therm 500 is a factory-mixed mineral dry mortar.

Composition

Cement, white hydrated lime, polystyrene, graded mineral aggregates, additives for better workability and adhesion to substrate (underlay render).

Main features

- for all mineral substrates
- equalizes the porosity of the render substrate
- open to diffusion of water vapour
- provides a rough surface
- only suitable for mechanical mixing and application
- for use as bondcoat for high-porosity masonries or masonries with different porosity
- for use outdoors and indoors

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Technical values

Water absorption (w):	< 1 kg/m² * √h
Thermal conductivity (λ) (DIN 1408):	0.07 W/mK
Water vapour diffusion resistance value (μ) (EN 998-1):	≤ 10
Class of reaction to fire (EN 13501-1):	A2 - s1, d0 (non-combustible)

General notes

- Protect fresh render surfaces from rain to prevent efflorescence and from too rapid water evaporation, for ensuring an optimal hardening.
- Comply with the national guidelines and/or standards (for ex. DIN 18550); if not issued and if necessary, request technical advice.
- Due to specific substrates and application variations the consumption might vary. Exact consumption must be determined on a job site mock-up (trial area).
- Adjacent building parts must be separated from the built-in render system.

Substrate preparation

- The substrate must be clean, load-bearing and free of all adhesion-impairing substances
- Remove dirt, dust and loose particles.
- Remove cement laitance (hard sinter skin) with a notched large trowel.
- The substrate evenness must comply with the allowed tolerances (variations) defined by the national standards/guidelines (for ex. DIN 18202 “Tolerances in Building Constructions”). If necessary, take the appropriate remedial measures for levelling the substrates; if in doubt, request technical advice.
- Dry masonry: pre-wet, if necessary.
- Normal absorbent substrates (lightweight perforated bricks): no pre-treatment is necessary.
- Low-porosity (dense and smooth surfaces, e.g concrete, hard-fired clinker): apply the mineral bonding layer **weber.dur 101** in at least 5-mm thickness at a rate of approx. 6.0 kg/m^2 and comb horizontally with a notched trowel.
- Remove at least 70% of any existing old paint coats.
- The substrate preparation must be adapted to the specific job site conditions.

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Working instructions

- Temperature of air, materials and substrate during application and drying: ≥ +5°C
- Do not add any foreign substances during mixing and application.
- Clean mixing equipment and tools with water (fresh product). Hardened material can only be removed mechanically.

Mixing

- Manual mixing and application are not possible.
- Mechanical application: the render can be applied with a render machine with following equipment: special fan for insulating render - screw pump D 8 - 1.5 with tension clamp - material hopper - rotor blunger - fine spray machine DN 35 (nominal size) - nozzle F 14 mm and hoses of 35-mm diameter. For full information request technical advice. We recommend the machine Putzmeister PFT G4. Do not use piston pumps. The water demand is approx. 10 liters / 75 liter bag.

Application

- Spray **weber.therm 500** in the appropriate thickness (approx. 10 mm).
- If necessary, roughen the fresh surface with a hard broom or a notched large trowel in order to avoid deposit of cement laitance (hard sinter skin) which might impair adhesion with the post-applied insulating render **weber.therm 505 HDP** or **507**.
- Let **weber.therm 500** or **weber.dur 101** dry at least 4 days prior to application of the insulating render **weber.therm 505 HDP** or **507**.

Practical information

Grain size:
approx. 1 mm

Water demand:
approx. 10 liters / 75 liter bag

Tools:
Render machine Putzmeister PFT G4 with special equipment, hard broom, notched large trowel.

Storage:
The product can be stored for up to 12 months in its original unopened packaging, if kept dry and protected from moisture.

Consumption / yield

approx. 6.0 m² / 75 liter bag

Packagings

Type	Sales unit	Number / euro-pallet
Paper bag	75 liters	32 bags

The information in this technical data sheet is based on our current knowledge and experience at the time of printing. However, they do not guarantee in the legal sense.

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