

weber.therm 301

Bonding and reinforcing mortar

Mineral bonding and reinforcing mortar within ETICS weber.therm A 200, B 100 and AK 500/BK 500, renovation mortar for old load-bearing renders



Product profile

- reinforcing mortar for overcoating old load-bearing renders
- thick-layer, mineral bonding and reinforcing mortar for **weber.therm** ETICS (external thermal insulation composite systems)
- for use on socket parts of ETICS

Product advantages

- easy and safe application
- thick/medium-layer, stable reinforcement layer
- high bonding strength

Product description

weber.therm 301 is a factory-produced, mineral dry mortar according to DIN EN 998-1.

Fields of application

weber.therm 301 is used as a thick-layer, mineral bonding and reinforcing mortar within the ETICS (external thermal composite systems) **weber.therm A 200, B 100, AK 500/BK 500** and **weber.therm Vakuum Innendämmsystem**. Also as renovation mortar for old load-bearing renders.

Product features

- high bonding strength and excellent workability properties
- best suited for mechanical application and is also available in silo
- provides a high-performance reinforcement layer in combination with **weber.therm** reinforcement fabrics
- also for use on old load-bearing renders

Consumption / yield

Bonding mortar	approx. 5.0 kg/m ²	approx. 6.0 m ² /30 kg
Reinforcing mortar	approx. 7.0 kg/m ²	approx. 4.3 m ² /30 kg
Bonding and reinforcing mortar	approx. 12.0 kg/m ²	approx. 2.5 m ² /30 kg
Fresh mortar yield	approx. 780 l/tonne	

Technical values

Layer thickness	4 - 7 mm
Water demand	approx. 7.5 l/30 kg
Water vapour diffusion resistance [μ]	≤ 25
Class of capillary water absorption	W2
Tensile adhesion strength	> 0.3 N/mm ²
Strength class	CS IV
Reaction to fire [EN13501-1]	A1
Base color	natural grey
Composition	cement, graded mineral aggregates, fibers, hydrophobing agents, additives for better workability and adhesion to the base coat
Water absorption coefficient w (DIN 18550)	< 0.5 kg/m ² -√h

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Temperature of air, materials and substrate during application not below +5 °C

Storage

Shelf life	min. 12 months
Storage conditions	In the original unopened packaging, dry and protected from moisture.

Application

Surface preparation

- The substrate must be load-bearing, sufficiently dry and levelled and free of all adhesion-impairing substances.
- The evenness of the surface must meet the requirements of DIN 18 202 "Tolerances in building construction".
- Dirt, dust and loose particles must be removed from the substrate.
- Any existing old paint coats must be at least 70% removed.

Application

Mixing

- The bonding and reinforcing mortar should be mixed using an electric drill and an appropriate stirrer while adding the specified amount of clean water until a consistency suitable for application is achieved. The mortar can also be applied using all conventional rendering machines and silo mixing pumps (e.g. EMP). A special glue gun can be used to apply the bonding mortar onto the insulation boards.

Application as a bonding mortar for insulation boards

- The insulation boards **weber.therm** are coated with bonding mortar in a frame shape all around and with two or three vertical strips on their backside.
- The mortar must be distributed in such a way that at least 50 % of the surface is bonded to the surface after pressing.
- In case of sufficiently even substrates and insulation boards **weber.therm Facade speedy** and **weber.therm Facade express** are used, the mortar can also be sprayed/applied onto the surface in beads (min. 50% coverage). The insulation boards are pressed into the mortar immediately afterwards. Alternatively, the insulation boards can also be covered full-surface on their backside and pressed on the walls.

Application as reinforcing mortar over insulation boards

- The mortar is applied to the insulation boards to a thickness of approximately 4-7 mm and strike off with a stainless steel smoothing trowel. Level the freshly applied render mortar using a straightedge to ensure it is plumb and free of voids.
- Lay the woven reinforcement mesh **weber.therm 310** "wet-in-wet" into the reinforcement mortar in vertical or horizontal wrinkle-free strips across the whole surface. The fabric strips must overlap by at least 10 cm at the joints.
- Depending on the type of overlay render (finish top coat), the surface is combed (for fine scratch coat) or only roughened.

Application on the old load-bearing overlay renders

- The mortar is applied to the cleaned or appropriately pre-treated plaster surfaces up to a maximum of 10 mm. Level the freshly applied render mortar using a straightedge to ensure it is plumb and free of voids.
- In case of cracks in the old substrate, lay the woven reinforcement mesh **weber.therm** in vertical or horizontal strips, pressing it into the reinforcement mortar using a smoothing trowel or float to ensure it is wrinkle-free.
- In case of thick-layer overlay renders (e.g. scratch renders), the reinforcing mortar is combed with a hard broom or a notched large trowel. For other overlay renders, level to a flat and in-plane surface with a wooden float.

General notes

Do not add any foreign substances when mixing or applying the product.

The temperature of the air, the used materials and the substrate must not fall below +5 °C during application and drying of the mortar.

To ensure optimal hardening, the freshly applied mortar must be protected from water evaporating too quickly.

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Application and execution in accordance with DIN 18 350 VOB, Part C and DIN 18 550.

The hard sintered skin must be removed.

The consumption figures mentioned in this document refer to the minimum mortar layer thickness. Due to variations in substrates and application methods, the actual consumption may differ. The exact consumption must be determined using a mock-up (trial area) on the job site.

Adjacent building parts must be separated from the built-in render system.

Occupational safety and environmental protection:

Health and environmental protection are always our top priorities. Therefore, please observe the following instructions:

- Avoid eye and skin contact by wearing suitable protective clothing (safety goggles and gloves).
- Wear long trousers.
- If contact with the eyes or skin nevertheless occurs, rinse thoroughly the affected area with water immediately and consult a doctor if necessary.
- The longer fresh render remains on your skin, the greater the risk of serious skin damage.
- Ensure thorough ventilation during and after application and drying.
- Avoid eating, drinking or smoking while applying the product.
- Keep it out of the reach of children and keep children away from fresh render.
- Use a combination filter A2/P2 for spray mist.
- Do not pour the product or its residues into bodies of water, drains or onto the ground.
- Only dispose of containers once they are completely empty for recycling.
- Clean tools immediately after use with soap and water.
- Material residues can be mixed with water and disposed of as construction site waste once hardened.
- Always follow the manufacturer's health and safety instructions during the application.

weber.therm 301 is subject to regular quality control through external monitoring and self-monitoring in accordance with DIN EN 998-1.

Packaging units

Type	Unit	PU
sack	30 kilogram	42 sacks / palett
silo		

The information in this technical information 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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