Technical data sheet

weber.therm 304

Lightweight bonding and reinforcing mortar

Thick-layer, lightweight bonding and reinforcing mortar within ETICS weber.therm B 100

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)

Product advantages

— high yield
— thick-layer, stable reinforcing mortar
— easy and safe application

Product description

weber.therm 304 is a factory-mixed, mineral dry mortar according to DIN EN 998-1.

Fields of application

weber.therm 304 is used as thick-layer and lightweight bonding and reinforcing mortar within ETICS (external thermal insulation composite system) **weber.therm B 100.**

Product features

— high bonding strength
— excellent workability properties
— high yield
— high application safety

Consumption / yield

Bonding mortar	approx. 4.0 kg/m²	approx. 6.3 m²/25 kg
Reinforcing mortar	approx. 5.0 kg/m²	approx. 5.0 m²/25 kg
Bonding and reinforcing mortar	approx. 9.0 kg/m²	approx. 2.8 m²/25 kg
Fresh mortar yield	approx. 1000 l/tonne	

Technical values

Layer thickness	5 - 8 mm
Water demand	approx. 7.5 l/25 kg
Water vapour diffusion resistance [μ]	≤ 20
Class of capillary water absorption	W1
Tensile adhesion strength	> 0.3 N/mm²
Solid mortar density	< 1,300 kg/m³
Strength class	CS II
Reaction to fire [EN13501-1]	A1
Composition	cement, white hydrated lime, graded mineral aggregates, organic lightweight aggregates, hydrophobing agents, additives for better workability and adhesion to the base coat
Color shades	natural white
Water absorption coefficient (w)	< 0.5 kg/m²-√h
Temperature of air, materials and substrate during application	not below +5 °C

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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 level.
— The substrate evenness must comply with the requirements of DIN 18 202 "Tolerances in building construction".
— Any dirt, dust or loose particles must be removed from the surface.
— Any existing old coats of paint must be removed by at least 70%.
— A tensile adhesion test should be carried out on critical substrates.

Application

Mixing

— The bonding and reinforcing mortar is mixed using an electric drill fitted with 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 to the insulation boards.

Application as a bonding mortar for insulation boards

— Spray/apply the bonding mortar in the shape of a frame all around the polystyrene insulation boards **weber.therm EPS** with two or three vertical strips.
— The mortar should be spread so that, after pressing, at least 50% of the substrate is bonded to the surface.
— If the substrate is sufficiently even and the insulation boards **weber.therm EPS Facade speedy** are used, the mortar can also be sprayed/applied in beads onto the substrate (minimum 50 % coverage).
— Press the insulation boards into the mortar immediately afterwards.

Application as reinforcing mortar over insulation boards

— Spray/apply the reinforcing mortar to the insulation boards to a thickness of approx. 5-8 mm, then level it off.
— Lay the woven reinforcement mesh **weber.therm** in vertical or horizontal wrinkle-free strips. The mesh should be positioned in the upper half of the mortar layer. The strips of mesh must overlap by at least 10 cm.
— Depending on the type of overlay render (finish top coat), the surface is either combed horizontally to create a fine scratch coat or roughened.

Application on the old load-bearing overlay renders

— Spray/apply the mortar to the cleaned or appropriately pre-treated render surfaces up to a maximum of 10 mm and levelled.
— If there are cracks in the old substrate, press the woven mesh **weber.therm** into the reinforcement mortar in vertical or horizontal, wrinkle-free strips using a trowel.
— For thick-layer overlay renders (scratch renders), comb the reinforcing mortar with a hard broom once it has set. For other overlay renders, use a wooden float to create a flat, even surface (do not smooth).

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.

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

The hard sintered skin must be removed.

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

Special notes

Suitable for overcoating old renders, including render with dispersion paints on top, as well as resin-based renders and cracked old facades.

Thoroughly clean old substrates. Blast older dispersion coatings and polymer render/plasters with a high-pressure cleaner.

Carry out tensile adhesion tests (pull-off tests) on critical substrates. For dowelled systems (typically found in old buildings), observe the specified dowel arrangement.

Before applying the final thin-layer coats, prime the **weber.therm 304** with the universal primer **weber.prim 403**.

If a lime or lime-cement render has been applied beforehand, the render machine and hoses must be thoroughly cleaned. If necessary, the dry conveyor system should be cleaned too.

Packaging units

Type	Unit	PU
sack	25 kilogram	42 sacks / palett
silo		

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