# Technical Data Sheet

# weber.therm 377

## Organic reinforcing mortar

## Ready-to-use reinforcing mortar within Etics weber.therm B 200

### Fields of application

**weber.therm 377** is a high-yield, cement-free, ready-to-use dispersion-based reinforcing mortar for the Etics (external composite thermal insulation system) **weber.therm B 200**.
The system consists of following components: polystyrene insulation board **weber.therm EPS**, bonding mortar **weber.therm 309** (on concrete) or **370** (on specific building panels), reinforcing mortar **weber.therm 377**+ woven mesh **weber.therm 311**, dowels **weber.therm** and thin-layer mineral (EN 998-1) or organic overlay render (EN 15824).
Particularly suitable for the facade insulation of buildings whenever a slim system structure is required.
Ideal as renovation mortar for old load-bearing overlay renders thanks to its high crack resistance.
Can also be used for the renovation of damaged and cracked new and old facades.
For use outdoors.

### Description

**weber.therm 377** is a factory-mixed, cement-free, organic reinforcing mortar with fibers.

### Composition

Graded mineral aggregates, fibers, hydrophobic agents, additives for better workability and adhesion to substrate (underlay render)

### Main features

- high bonding strength
- flexible reinforcement layer
- excellent workability properties
- solvent-free
- dedicated for thin-layer applications
- provides a high-performance reinforcement layer in combination with the reinforcement fabric **weber.therm 311**

- resistant to weathering
- creamy consistency
- for use as reinforcing mortar for Etics **weber.therm B 200**
- also as renovation mortar for renovation of damaged and cracked new and old facades (old load-bearing overlay renders)
- for use outdoors

## Technical values

| | |
|---|---|
| Application thickness: | approx. 3 mm |
| Class of capillary water absorption (EN 1062-1): | W 3 |
| Water vapour diffusion stream density (EN 1062-1): | V 2 |
| Pull-off strength on substrate: | ≥ 0.3 N/mm$^2$ |
| Class of reaction to fire (EN 13501-1): | A2-s1, d0 (non-combustible) |

## Quality control

**weber.therm 377** is subject to a regular quality control by self-monitoring.

## General notes

- **Limits of use**: **weber.therm 377** is not suitable for bonding insulation boards; in this case use the special cement-based bonding mortar **370**.
- Comply with the national guidelines and/or standards (for ex. DIN 18550); if not issued and if necessary, request technical advice.
- The consumption figures mentioned in this document refer to the minimum layer thickness of the mortar. Due to specific substrates and application variations the consumption might vary. Exact consumption must be determined on a job site mock-up (trial area).

## Special notes

- Cover adjacent components well or protect against splashes.
- In case of renovation of old facades, a 2-layer application with intermediate drying and embedment of reinforcement fabric may be required.
- For full information related to all application details, like assembly of boards, dowelling works, reinforcement of corners, assembly of profiles, socket parts etc., request technical advice.


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## Substrates

- Allowed substrates: organically-bonded wood-based panels, cement-based chipboards, gypsum-based chipboards, gypsum fiberboards and fiber-cement panels.

## Substrate preparation

- The substrate must be load-bearing, sufficiently dry, level and free of all adhesion-impairing substances.
- Remove dirt, dust and loose particles.
- Remove efflorescence and residues of formwork oil; if necessary, via steam-blasting.
- 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.
- Differences of ± 10 mm can be compensated during bonding (± 20 mm for additionally dowelled system). Unevenness > 10 mm (or > 20 mm) must first be levelled out with **weber.therm 300** (bonding and reinforcing mortar), **therm 376** or **weber.dur 132** (lightweight renders).
- Respect the drying time of the pre-said products (at least 7 days) before the insulation boards are bonded.
- Clean old renders thoroughly with a high-pressure cleaner and allow to dry.
- Check old renders carefully and remove all hollow or brittle parts. Clean old substrate and/or old render; if necessary, pre-wet. Repair the areas with a lightweight lime-cement render, for ex. **weber.dur 132**.
- Remove at least 70% of any existing old paint coats.
- If the old organic paint or render is load-bearing, the insulation boards can be applied after the facade cleaning.
- If they are not load-bearing, the old surface must be opened in a checkerboard pattern and removed by steam- or sandblasting by at least 70%.
- High-porosity substrates: use the deep-penetrating primer **weber.prim 400**.
- Carry out tensile adhesion strength tests (pull-off tests) in case of critical substrates.
- Expansion joints of the building structure must be taken over in the whole construction of the system. In all cases expansion joints should be arranged every 30 meters. Follow the national norms/standards; if not issued and if necessary, refer to the norm DIN 18 540 “Sealing of External Wall Joints with Joint Sealants”.
- For the flush and perpendicular alignment of connections and terminations fix the render profiles with the mortar profile bonding and installation mortar **weber.mix 125**.
- The substrate preparation must be adapted to the specific job site conditions.

## 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

- Stir the packaging content well until lump-free, using an electric drill and an appropriate stirrer.
- A dilution with up to 1% clean water is possible.

### Application as reinforcing mortar over insulation boards

- Apply **weber.therm 377** in approx. 3 mm thickness onto the insulation boards and strike off with a stainless smoothing trowel.
- Lay the woven mesh **weber.therm 311** (mesh size 4 x 4 mm) “wet-in-wet” in vertical or horizontal wrinkle-free strips across the whole surface. The strips must overlap by at least 10 cm. Gently press the mesh with a flat trowel. The mesh must lie in the upper half of the mortar layer.
- Rule level **weber.therm 377** to a flat and in-plane surface with a wooden float (do not smooth it) to ensure best key with the overlay renders (see hereunder).

### Application of overlay renders on weber.therm 377

- Respect a drying time of at least 7 days prior to application of overlay renders.
- Apply the universal primer **weber.prim 403** on the dry reinforced layer.
- Following **Weber** thin-layer organic overlay renders can be used as finish top coats on top of **weber.therm 377**: **weber.pas 431**/**weber.pas 471**/**weber.pas 480** or **weber.pas 481 Aqua-Balance**.

### Application on old load-bearing overlay renders

- Clean and prepare the old renders (see above).
- Apply **weber.therm 377** in approx. 3 mm thickness.
- Rule level with a straight edge (for ex. aluminium beam), avoiding honeycombs or gaping holes.
- In case of cracks in the substrate lay the woven mesh **weber.therm 311** “wet-in-wet”. Follow the instructions relating to its application as described above.

- Rule level **weber.therm 377** to a flat and in-plane surface with a wooden float (do not smooth it) to ensure best key with the overlay render.
- After at least 7 days apply the new thin-layer organic overlay render as finish top coat.as described above.

## Practical information

Colour:
natural white

Application thickness:
approx. 3 mm

Tools:
Electric drill + stirrer, stainless smoothing trowel; for finishing works in case of thin-layer organic overlay renders: wooden float.

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

## Consumption / yield

| | | |
|---|---|---|
| Reinforcing mortar: | approx. 3.0 kg/m² | approx. 8.0 m² / 25 kg |

## Packagings

| Type | Sales unit | Number / euro-pallet |
|---|---|---|
| Plastic bucket | 25 kg | 24 buckets |

*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.*