

weber.xerm 850 Plus

Flexible tile adhesive

Flexible thin- and medium-bed tile adhesive (C2 /TE)

Fields of application

For fixing floor and wall ceramic tiles indoors and wall ceramic tiles outdoors. Particularly used for all common tiles and non moisture (discoloration)-sensitive natural stones. As flexible thin-bed or medium-bed adhesive it is a system component of the **Weber** bonded waterproofing solutions **weber.tec 822** (1-comp. liquid foil), 824 (1-comp. cement-based slurry), Superflex D 2 and **weber.xerm 844** (1-comp. quick-setting and reactive compounds) and also **weber.tec 825** (waterproofing membrane).

Hence for use in damp, wet-duty and cold storage rooms.

Following substrates among others are allowed: cement and anhydrite screeds (heated and non-heated), gypsum paperboards, gypsum fiberboards, cement and lime-cement plasters/renders, gypsum plasters and rigid foam boards.

For use indoors (walls and floors) and outdoors (walls).

Description

weber.xerm 850 Plus is a factory-mixed, flexible thin- and medium-bed mortar of **class C2 TE** ("cement-based adhesive with reduced slip and extended open time") according to EN 12004.

Composition

Mineral binder, selected aggregates, additives

Main features

- **EMICODE EC 1:** low emission of volatile substances
- **class C2 TE:** C2: pull-off strength $\geq 1.0 \text{ N/mm}^2$ after all storage conditions
– T: thixotropic, slip $\leq 0.5 \text{ mm}$ – E: extended open time ≥ 30 minutes
- can be applied as thin- or medium-bed adhesive
- no maturing time after mixing
- extended bonding open time
- very good slip resistance

- suitable on top of Weber bonded waterproofing systems
- convenient on several substrates and for numerous coverings
- convenient on heated floor constructions
- for levelling out unevenness and defects up to 10 mm thickness
- for use indoors (walls and floors) and outdoors (walls)

Technical values

Application temperature:	+5°C - +30°C
Pot life:	approx. 3 hours
Bonding open time:	approx. 30 minutes
Open to foot traffic:	approx. 24 hours
Open for grouting works:	approx. 24 hours
Open to full service:	approx. 7 days
Pull-off strength after dry storage/heat aging /water immersion/freeze thaw cycling:	≥ 1.0 N/mm ² (EN 12004)
Temperature resistance	-20°C - +70°C
Reaction to fire:	class E (EN 1204)
Chromate content:	low content (EC regulation 1907/2006)

Quality control

weber.xerm 850 Plus is subject to a regular quality control by self-monitoring according to EN 12004.

General notes

- **Limits of use:** do not use **weber.xerm 850 Plus** for bonding “tile on tile” outdoors, in permanently wet areas and in areas permanently under water (without waterproofing): in these cases, use the epoxy resin adhesive **weber.xerm 847**.
- For fixing ceramic tiles and natural stones on lightweight concrete we recommend the flexible lightweight tile adhesive **weber.xerm 854**; check the compatibility of the natural stones on a trial area.
- **weber.xerm 850 Plus** is convenient for fixing tiles up to 30 x 60 cm.
- For bonding tiles > 30 x 30 cm on walls use a tile adhesive of class “S 1”.

- For bonding tiles > 30 x 30 cm on floors also use a tile adhesive of class “S 1” and if necessary, with flow-grade properties.
- For full information relating to allowed substrates and tile coverings refer to the **Weber “Overview Tile Adhesives”**.
- All characteristics mentioned in this data sheet are based on a temperature of +23°C without draught and a relative humidity rate of 50%.
- Higher temperatures and lower humidity rates accelerate, lower temperatures and higher humidity rates delay the setting process.
- Comply with the national standards and/or guidelines, for ex. DIN 18157 “Execution of tilings and coverings” and the leaflets of ZDB (Central Association of German Construction Industry); if not issued and if necessary, request technical advice.
- For installation of natural stone slabs follow the supplier’s recommendations. If in doubt, carry out preliminary tests.
- Respect the maximum residual moisture content of the substrate at the time of installation of ceramic coverings and natural stones; it should not exceed 2.0% CM-% (by weight) in case of heated or non-heated cement screeds, 0.5% CM-% (by weight) in case of heated or non-heated anhydrite screeds, 1.0% CM-% (by weight) in case of gypsum plasters, and air-dry for cement and cement-lime renders/plasters. The moisture content must be measured with a carbide hygrometer (CM) as a rule.
- Do not install tiles, slabs or natural stones that have been stored damp, wet, or too cold.
- Protect the structure from moisture until the tile adhesive has completely set.
- Do not use material that has already stiffened.

Special notes

- When levelling substrates with low compressive strength and bulk density (e.g gypsum plasters, lightweight plasters, aerated concrete, etc.) or calcium sulphate screeds, apply the tile adhesive in a maximum thickness of 3 mm.
- Do not use in contact with non-ferrous metals, such as aluminium, copper, lead or zinc. Used stainless steel components, e.g rails and edge protector angles.

Substrate preparation

- The substrate must be sufficiently solid, load-bearing, clean, dry, dimensionally stable, and free of all adhesion-impairing particles and substances.
- Concrete substrates must be free of cement laitance.
- Completely remove oil, grease, wax and care agent residues.
- Remove chalking paints as well as solid lacquer and dispersion paints mechanically.

- Calcium sulphate flow screeds: grind, vacuum off dust and use the 1-comp. quick-drying multi-use primer **weber.prim 804**.
- Absorbent substrates: apply the primer **weber.prim 801**.
- Non-absorbent, smooth substrates (indoors): apply the bonding primer **weber.prim 803**.
- **weber.prim 804** as multi-use primer can also be used for absorbent and non-absorbent substrates.
- The substrate preparation must be adapted to the specific job site conditions.

Working instructions

Mixing

- Pour clean water in a suitable mixing vessel and add the powder. Mix the bag content (25 kg) with approx. 8 - 9 liters of water, using an electric drill and an appropriate stirrer (for ex. **weber.sys Rührpaddel** no. 2 or no. 8) until lump-free.
- If required, stir up the mortar again with a trowel or a slow-speed drill without adding more water.

Application

- Apply a contact coat of **weber.xerm 850 Plus** on the substrate with the smoothing trowel and comb down a uniform adhesive bed with the notched trowel at an angle of 45° - 60°.
- Before a skin starts to form (check the tackiness of combed down tile adhesive with the finger) slide the tiles into the fresh mortar bed with a slight twisting motion and press down.
- Scratch out the joints before the tile adhesive hardens.
- Remove fresh mortar residues using a wet sponge.
- Clean mixing equipment and tools with water (fresh product). Hardened material can only be removed mechanically.

Practical information

Colour:
natural grey

Bed thickness:
up to 10 mm

Water demand:
approx. 8.0 - 9.0 liters / 25 kg

Technical Data Sheet



Tools:

Electric drill + stirrer **weber.sys Rührpaddel** no. 2 or no. 8, smoothing trowel, thin-bed or medium-bed notched trowel

Storage:

The product can be stored at least 18 months in its original unopened packaging, if kept dry and protected from moisture.

Consumption

4 mm notch:	approx. 1.5 kg/m ²
6 mm notch:	approx. 2.0 kg/m ²
8 mm notch:	approx. 2.5 kg/m ²
10 mm notch:	approx. 3.0 kg/m ²
medium-bed notch:	approx. 4.3 kg/m ²

Packagings

Type	Sales unit	Number / euro-pallet
Plastified bag	25 kg	42 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.