weber.xerm 843 F (Plastikol F 1)
Flexible and quick-setting thin-bed tile adhesive, dispersion-based in powder form

Technical data sheet

Range of application

weber.xerm 843 F is suitable for the bonding of the floor acoustic and de-coupling panels **weber.sys 832** on wooden substrates, concrete and floor screeds, as well as for laying ceramic tiles on the pre-said panels.

It can also be used for laying floor and wall ceramic tiles, earthenware, mosaic, stoneware quarter-brick claddings, stoneware, fine stoneware, split tiles, and hard foam panels on concrete, lightweight concrete, cement and cement-lime renders, cement and anhydrite screeds (also heated screeds), tilebacker boards **weber.sys 834**, paper-backed gypsum plaster boards and cellular concrete in the thin-bed method.

weber.xerm 843 F can be used on young cement screeds between the 3rd and the 7th day.

In combination with the floor acoustic and de-coupling panels **weber.sys 832** also critical substrates like asphalt, old tiles, chipboards and timber planking are convenient for use of **weber.xerm 843 F** indoors.

Description

weber.xerm 843 F is a factory-mixed flexible thin-bed tile adhesive according to DIN EN 12004. Classified C2 FTE / S2. It also fulfills the Germand standard for Flexible Mortars (« Richtlinie für Flexmörtel »).

Composition

Polymer-modified, hydraulic binding special mortar with selected additives

Main features

- suitable on young screeds between 3rd and 7th day
- high deformation
- high bonding strength
- high yield
- quick-setting

Product data

Colour	white
Water requirement	approx. 6.3 litres / 18 kg bag
Pot life	approx. 60 minutes
Application temperature	+5 °C to +30 °C
Layer thickness	up to 6 mm
Tools	electric drill, mixing stirrer, notched trowel or flat trowel

Open time	approx. 60 minutes
Open to light pedestrian traffic	after approx. 4 hours
Open for grouting	after approx. 12 hours
Open to full service	after approx. 7 days
Resistance to temperature	+5 °C to +70 °C
Consumption	notch 6 mm: approx. 1.2 kg/m^2 notch 8 mm: approx. 1.6 kg/m^2 notch 10 mm: approx. 2.0 kg/m^2

Quality control
weber.xerm 843 F is subject to constant quality control via self-monitoring in accordance with EN 12004.

General instructions

- Do not use material that has already stiffened.
- All characteristics given in this data sheet are based on a temperature of +23 °C without draught and relative humidity rate of 50 %.
- Higher temperatures and lower humidity accelerate, lower temperatures and higher humidity delay the course of the reaction.
- For installation of natural stone slabs or artificial stone slabs comply with the installation recommendations provided by the respective manufacturer. Preliminary tests must be carried out if there is any doubt.
- Metal and wooden substrates must be prepared through suitable measures (for ex. de-coupling panels, combined with a self-levelling mortar underneath, epoxy primer broadcasted with silica sand etc.) before installation. Ask our technical department.
- For application all national standards and guidelines (if necessary, DIN 18157 and the current ZDB leaflets) must be complied with.
- The specific maximum residual substrate moisture at the time of installation which is prescribed in national guidelines, should not be exceeded.
- Do not install tiles, slabs, or natural stones which are damp or wet, or which have been stored in too cold conditions.
- **weber.xerm 843 F** is neither suitable for any use outdoors, nor in permanently immerged areas.
- For bonding tiles on tile outdoors and in permanently wet areas or those under water (without waterproofing) we recommend the 2-component highly flexible epoxy resin adhesive **weber.xerm 847**.

Special instructions

- When levelling substrates with lower level of compressive strength and bulk density (e.g. gypsum plasters, lightweight renders, cellular concrete, etc.) or when levelling asphalt and calcium sulphate screeds, the maximum adhesive bed thickness of 3 mm should not be exceeded.

- Do not use in conjunction with non-ferrous metals like zinc, lead, copper or aluminium. Use rails and edge profiles of stainless steel.

Preparation of substrates

- The substrates must be sufficiently sound, load-bearing, clean, dry, dimensionally stable and free of any other adhesion-diminishing particles. Concrete must be free of cement laitance. Oils, fats, residues of waxes and cleaning agents must be removed completely. As oil and grease remover use **weber.sys 894**.
- Absorbent substrates must be primed with **weber.prim 801** and non-absorbent, smooth substrates (indoors) must be primed with **weber.prim 803**.
- Old or fouled asphalt substrates (indoors): roughen by mechanical means and use the primer **weber.prim 803**.
- Clean, sufficiently sanded asphalt screeds (indoors): a primer is not necessary.
- Chalky paints as well as solid lacquer and dispersion paints: remove by mechanical means and use the primer **weber.prim 801**.
- Calcium sulphate screeds: remove cement lime by grinding, keep off dust with an industrial vacuum cleaner, and then use the primer **weber.prim 801**.
- Chipboards: to be jointed tongue and groove; if required, additionally anchor with wood screws. Use the primer **weber.prim 803**. In case of humidity-resistant boards use the solvent-free 2-comp. epoxy primer **weber.prim 806** and broadcast silica sand (0.1 – 0.7 mm) up to saturation.
- Timber planking: check its stability with underlay construction and screw every 40 cm. Install a PE foil, lay the mesh **weber.sys 987** lose with overlapping of minimum 10 cm on each side and pour the self-levelling mortar **weber.plan 813-25** in a thickness of minimum 10 mm. After drying fix the de-coupling panels **weber.sys 832** with **weber.xerm 843 F**.
- For installing tile on tile (indoors) in residential buildings a primer is not necessary on floors. A scratch layer application must be executed on wall surfaces. In commercial areas use **weber.prim 803** on walls and floor. Check the bonding of old tiles and replace dismantled tiles or use **weber.sys 891** for filling hollow spaces under tiles.
- The necessary substrate pre-treatment must be adapted to the respective specific job site conditions.

Working instructions

- Pour the specified amount of gauging water into a suitable container. Add powder and stir until lump-free with the stirrer **weber.sys Rührpaddel N° 2** or **N° 8.**
- If required the mortar can be stirred up from time to time with the trowel or the stirrer without adding more water within the open time period.
- Apply a contact coat on the substrate with the flat trowel, then comb down a uniform adhesive bed with the notched trowel at an angle of 45°– 60°.
- Before a skin forms (check the tackiness of fresh combed mortar with the finger) slide the tiles into the fresh mortar bed and press them on. The joints must be scratched out before the mortar hardens.

- Mortar residues should be removed in fresh condition using a wet sponge. Clean equipment with water immediately after use.
- After tile fixing works, joints between ceramic materials can be grouted with a cement-based grout, like **weber.fug 875 F** or **877** etc. in accordance with the expected performance as well as with type and size of tiles.
- Close connection, expansion or movement joints with an elastomeric silicone-based joint sealant, like **weber.fug 880** or **881** in accordance with tile type.

Delivery and storage

The product is delivered in 18 kg paper bags (42 bags per euro-pallet). It can be stored for at least 9 months if kept cool and protected from humidity, and in the original tightly sealed packaging.

Legal notices

To the best of our knowledge and belief at the time, our recommendations for use are true and accurate. These recommendations are without any commitment on our part. They create neither a legal position nor any minor obligation. In no case the buyer of our products is delivered of duty for testing our products under his own responsibility whether the product is suitable for his specific application. The technical figures result from laboratory tests. In practice these figures might differ. This data sheet supersedes all previous data sheets.

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