

## weber.xerm 843

### Dispersion-based tile adhesive in powder form

#### Thin-bed tile adhesive with high deformability (C2 TE / S2)

##### Fields of application

For bonding the Impact sound insulation and de-coupling boards **weber.sys 832** on wooden floors, concrete, screeds, as well as for fixing ceramic tiles on the pre-said boards.

Also for fixing floor and wall ceramic tiles, mosaic, stoneware brick slips, porcelain stoneware, earthenware, split tiles and rigid foam boards on concrete, lightweight concrete, aerated concrete, cement and cement-lime plasters, cement screeds and calcium-sulphate screeds (heated and non-heated), lightweight multi-use tilebackers **weber.sys 834** and gypsum paperboards, using the thin-bed method.

Suitable on young cement screeds between the 3<sup>rd</sup> and the 7<sup>th</sup> day following their application.

Furthermore for use on critical substrates, like asphalt boards, old tiles, chipboards and timber planks in combination with the boards **weber.sys 832**.

For use indoors.

##### Description

**weber.xerm 843** is a factory-mixed, flexible thin-bed tile adhesive of class **C2 TE / S2** ("improved deformable cement-based adhesive with reduced slip and extended open time") according to EN 12004.

##### Composition

Polymer-modified, hydraulically-setting special mortar with selected aggregates

##### Main features

- **EMICODE EC 1 PLUS**: very low emission of volatile substances
- **C2 TE / S2**: C2: pull-off strength  $\geq 1.0 \text{ N/mm}^2$  in all storage conditions – T: thixotropic, slip  $\leq 0.5 \text{ mm}$  – E: extended open time  $\geq 30$  minutes – S2: deformation  $\geq 5 \text{ mm}$
- quick-setting: quickly open to pedestrian traffic and for grouting works
- high deformability
- high bonding strength
- high yield

- convenient for critical substrates
- can be directly applied on young screeds (between 3<sup>rd</sup> and 7<sup>th</sup> day)
- suitable for heated floor constructions
- for walls and floors
- for use indoors

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## Technical values

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|  |                                       |
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| Application temperature:                                 | +5°C - +30°C                          |
| Pot life:  | approx. 60 minutes                    |
| Bonding open time:                                       | approx. 30 minutes                    |
| Open to foot traffic:                                    | approx. 4 hours                       |
| Open for grouting works:                                 | approx. 12 hours                      |
| Open to full service:                                    | approx. 3 days                        |
| Pull-off strength after dry storage/<br>water immersion: | ≥ 1.0 N/mm <sup>2</sup> (EN 12004)    |
| Reaction to fire:  | class E (EN 12004)                    |
| Temperature resistance:                                  | +5°C - +70°C                          |
| Chromate content:  | low content (EC regulation 1907/2006) |

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## Quality control

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**weber.xerm 843** is subject to a regular quality control by self-monitoring according to EN 12004.

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## General notes

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- **Limits of use:** do not use **weber.xerm 843** outdoors and in areas permanently under water; in these cases use the epoxy resin adhesive **weber.xerm 847**.
- For full information relating to allowed substrates and tile coverings refer to the **Weber** chart "**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.

- Take preliminary measures before fixing coverings on wooden (timber planks) or metal substrates, for ex. with de-coupling boards combined with a self-levelling mortar or an epoxy resin covered with silica sand on top. Request technical advice.
- 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.
- For installation of natural or artificial stone slabs follow the supplier's recommendations. If in doubt, carry out preliminary tests.
- Do not install tiles, slabs or natural stones that have been stored damp, wet, or too cold.
- Do not use material that has already stiffened.

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## Special notes

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- When levelling substrates with low compressive strength and bulk density (e.g gypsum plasters, lightweight plasters, aerated concrete, etc.), calcium sulphate screeds or mastic asphalt 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.

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## Substrate preparation

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- 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, dust-vacuum off dust and use the primer **weber.prim 801**.
- Absorbent substrates: apply the primer **weber.prim 801**.
- Non-absorbent, smooth substrates (indoors): apply the bonding primer **weber.prim 803**.
- For laying "tile on tile" (indoors) on floors of residential buildings no pre-treatment is necessary; on walls apply a scratch layer and allow to dry. In commercial and industrial premises apply the bonding primer **weber.prim 803** on walls and on floors.
- **weber.prim 804** as 1-comp. quick-drying multi-use primer can also be used for absorbent and non-absorbent substrates.

- Old or soiled mastic asphalt substrates must be mechanically roughened. Clean and sufficiently sanded-off with silica sand mastic asphalt screeds can be covered without primer; otherwise asphalt screeds must be pre-treated with the bonding primer **weber.prim 803**.
- The substrate preparation must be adapted to the specific job site conditions.

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## Working instructions

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### Mixing

- Pour clean water in a suitable mixing vessel and add the powder. Mix the bag content (18 kg) with approx. 6.3 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 843** 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.

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## Practical information

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Colour:  
white

Bed thickness:  
up to 6 mm

Water demand:  
approx. 6.3 liters / 18 kg

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

Storage:  
The product can be stored at least 9 months in its original unopened packaging, if kept dry and protected from moisture.

# Technical Data Sheet



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## Consumption

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|              |                               |
|--------------|-------------------------------|
| 6 mm notch:  | approx. 1.2 kg/m <sup>2</sup> |
| 8 mm notch:  | approx. 1.6 kg/m <sup>2</sup> |
| 10 mm notch: | approx. 2.0 kg/m <sup>2</sup> |

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## Packagings

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| Type      | Sales unit | Number / euro-pallet |
|-----------|------------|----------------------|
| Paper bag | 18 kg      | 42 bags              |

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*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.*