

weber.tec 930

1-comp. normal-setting waterproofing slurry

Mineral cement-based waterproofing coating for earth-contacting building parts and drinking water tanks

Fields of application

For achieving mineral waterproofing of earth-contacting (below ground level) building parts, water tanks, drinking water tanks, and other building structures (above ground level).

Suitable for the external waterproofing of building structures against ground damp, non-pressure water and pressure water (positive pressure up to 1.5 bar).

For internal waterproofing of basements walls and floors resisting to negative water pressure.

For use indoors and outdoors.

Description

weber.tec 930 is a factory-mixed cement-based mineral waterproofing slurry. With official approval and test certificates. It conforms with the "Recommendations for Waterproofing Systems in contact with Potable Water" (DVGW 347) and resists to aggressive water in the soil (DIN 4030). It fulfills the standards for mineral waterproofing products (MDS) according to DIN 18535.

Composition

Cement, additives

Main features

- waterproof against pressure water
- can also be used in case of negative water pressure
- particularly resistant to mechanical and aggressive loads
- resistant to sulphate-containing water in the soil up to the "highly corrosive" level (up to 3.000 mg sulphate per litre of water) in accordance with DIN 4030
- suitable for long-term contact with drinking water
- no efflorescence and no harmful influences on concrete and masonry
- quickly able to withstand water load
- for use indoors and outdoors

Technical values

Consistency after mixing:	brush- or trowel-grade
Powder bulk density:	approx. 1.32 kg/dm ³
Density of fresh mortar:	approx. 2.10 kg/dm ³
Application temperature (air and substrate):	+5°C - +30°C
Pot life:	approx. 1 hour
Application thickness:	min. 2 - 3 mm
Number of layers:	2 - 3
Delay between layers:	approx. 1 hour
Dry residue:	100 %

Quality control

weber.tec 930 is subject to a regular quality control.

General notes

- Comply with the national standards and/or guidelines; if not issued and if necessary, refer to the "Guideline for Planning and Execution of Waterproofing of Structural Components with Mineral Waterproofing Slurries" and the WTA leaflet 4-6 "Retrospective Waterproofing of Ground-Contacting Structures" (WTA = International Association for Science and Technology of Building Maintenance and Monuments Preservation). In case of doubt request technical advice.
- All characteristics mentioned in this data sheet are based on a temperature of +23°C, without draught and a relative humidity rate of 50%.
- The slurry should only be applied to building structures that are crack-free and sufficiently stable.
- In case of positive pressure water restrict its application to concrete surfaces only; their immersion depth should not exceed 3 meters.
- In case of waterproofing water tanks (positive pressure) their water head should not exceed 15 meters.
- In case of internal waterproofing (negative water pressure) the immersion depth of the building structure should not exceed 3 meters; at the same time, a sufficient tensile (pull-off) strength of the substrate is required.
- The thickness of each layer should not exceed 3 mm at any point and the total thickness 5 mm.
- After application keep the waterproofing coat damp for at least 24 hours and protect from direct sunlight and freezing for an additional period of 5 days.

- Do not apply on frozen substrates or in frost conditions. Do not apply in rain.
- The waterproofing slurry can also be used as preliminary waterproofing for the 2-comp. reactive waterproofing slurry **weber.tec Superflex D 2**.
- If a render is planned on top of **weber.tec 930**, apply the quick-setting stipple coat **weber.san 951 S** full-surface as bonding layer on the fully dried dry waterproofing layer.
- When waterproofing water tanks containing very soft water with a hardness level $\leq 3^\circ$ dH (German hardness), corrosion on cementitious waterproofing slurries should be anticipated. For service water tanks without sewage residues (for ex. fire water tanks) we recommend **weber.tec Superflex D 2**.
- **weber.tec 930** resists to aggressive ground water (containing sulphates) according to DIN 4030 (see above). In case of doubt request technical advice.
- Avoid any direct contact with non-ferrous metals, for ex. aluminium, zinc or copper, and apply a full-cover anti-corrosion paint.

Special notes

- In all cases (except for waterproofing drinking water tanks) the polymer dispersion as bonding resin **weber.ad 785** can be added to **weber.tec 930** to improve the fresh and dry mortar properties.
- **weber.tec 930** can be blended with oven-dried silica sand for use as repair/patching mortar. In this case **weber.tec 930** (unblended) is first used as bonding coat.
- For both cases refer to the explanations herebelow "Specific applications".

Substrate preparation

- The substrate must be sufficiently load-bearing, clean, absorbent, solid, frost-free, dimensionally stable, and free from all adhesion-impairing particles and substances.
- Loose or flaking mortar and paint residues must be carefully removed.
- Break off edges and protruding parts.
- Pre-wet the substrates until dull-moist. Avoid puddle formation.
- Round the external angles between concrete slab and basement walls in groove form beforehand. Apply first a bonding layer of the watertight mortar **weber.tec 933** mixed in brush consistency along the angles. Afterwards apply the mortar as groove mortar mixed in trowel consistency in a radius of approx. 5 cm on the fresh bondcoat, using the preformed rounded trowel "big size" (250 x 150 mm) **weber.sys Hohlkehlschlitten**. After drying apply **weber.tec 930** in the appropriate layer thickness.
- The substrate preparation must be adapted to the specific job site conditions.

Working instructions

Mixing

- Pour water in a clean and suitable mixing vessel and add the powder (not vice versa).
- Mix with the specified amount of water for at least 4 minutes until lump-free. Use an electric drill and the stirrer **weber.sys Rührpaddel no. 2**. Observe a maturing time of approx. 3 -5 minutes and mix again shortly.
- If **weber.ad 785** is used, refer to the explanations herebelow "Specific applications".
- Do not add water subsequently.
- Do not mix more material than it can be applied within 60 minutes.
- When blended with sand, add sand after mixing **weber. tec 930** and water.

General application

- In case of ground damp and non-pressure water apply **weber.tec 930** in at least 2 layers.
- In case of external (positive) pressure water, internal (negative) pressure water and internal waterproofing of water tanks (positive pressure), 3 layers must be applied.
- Each layer is applied full-coverage at a rate of approx. 2 kg/m². The delay between each application is approx. 1 hour.
- The 1st layer must be applied by a block brush in order to obtain best key with the substrate. After the layer has started to set, apply the further layers up to the required maximal layer thickness.
- The 2nd and 3rd layer can be applied by a brush or a flat trowel. After about 15 minutes slightly smoothed the surface of each layer, using a damp brush or sponge to eliminate trowel marks and to close any pinholes.
- The required final dry layer thickness of all waterproofing layers must comply with the existing or expected water load.

Specific applications

- The use of the polymer dispersion **weber.ad 785** is possible for all applications, except for waterproofing works in contact with drinking water.
- First mix approx. 3.50 – 3.75 liters of water per 25 kg bag of **weber.tec 930**; afterwards add 1 liter **weber.ad 785** and mix again.
- Attention! If **weber.ad 785** is first mixed into the gauging water, the dry mortar final properties of **weber.tec 930** will be achieved, but its consistency will be impaired.

- For all applications (except in drinking water tanks) **weber.tec 930** can be used as levelling and patching mortar when mixed with silica sand in a ratio of 1 kg sand and 2.5 kg (10 kg of sand per 25 kg bag) **weber.tec 930**. First apply **weber.tec 930** as bondcoat, using a brush; afterwards apply the levelling layer with a flat trowel. Attention! The levelling layer cannot be considered as a waterproofing layer.

Protection

- Only install protective coats, boards, tiles, gypsum-free mortars after the waterproofing has sufficiently hardened.

Practical information

Colours:

grey

Application thickness:

depends on water load; see figures herebelow under "Consumption / yield"

Water demand:

min. 4.0 - max. 4.75 liters / 25 kg, depending on required consistency

Drying time:

approx. 3 days

Tools:

Electric drill + stirrer **weber.sys Rührpaddel no. 3**, screw pump, block brush, brush, flat trowel, sponge; for angles (grooves): brush, preformed rounded trowel "big size" (250 x 150 mm) **weber.sys Hohlkehlenschlitten**.

Storage:

The product can be stored at least 12 months in its original unopened packaging, if kept dry.

Technical Data Sheet



Consumption / yield

External waterproofing in case of pressure water:	approx. 4.0 kg/m ²	dry layer thickness ≥ 2 mm
External waterproofing in case of pressure water:	approx. 6.0 kg/m ²	dry layer thickness ≥ 3 mm
Internal waterproofing in case of ground damp and non-pressure water:	approx. 4.0 kg/m ²	dry layer thickness ≥ 2 mm
Internal waterproofing in case of pressure water (negative pressure):	approx. 6.0 kg/m ²	dry layer thickness ≥ 3 mm
Internal waterproofing of water tanks in the cases W1-B till W2-B (positive pressure)	approx. 6.0 kg/m ²	dry layer thickness ≥ 3 mm

Packagings

Type	Sales unit	Number / euro-pallet
Paper 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.