

Technical data sheet



Uses

- damp-proof render for repair of damp and salt-contaminated masonries
- for interior and exterior uses

Advantages

- high vapour-permeability
- high content of entrained air (high porosity)
- absorption of crystallising salts
- low water absorption



Multi-air-entrained, easy to use, damp-proof render for renovation of old salt-contaminated and damp masonries

Fields of application

weber.san 953 is a highly porous and vapour-permeable masonry repair damp-proof render.

It is especially used on the internal side of damp and salt-contaminated of basement walls below ground level and on external side of above-ground masonries (splash water area), damaged by damp and salt.

It is able to take up damaging salts, migrating from contaminated masonry substrates and store due to its porous structure.

Description

weber.san 953 is a hydraulically-setting premix render according to DIN EN 998-1, and corresponds to WTA guideline 2-9-04/D.

Composition

Cement, hydrated white lime, selected aggregates and additives

Main features

- high water vapour permeability
- resistant to salt
- low capillary water absorption
- high air-entrained content
- low ratio compressive strength / tensile strength
- easy-to-use

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- low consumption
- pumpable with plastering machine with additional mixing unit

Quality control

weber.san 953 is subject to a regular internal and external quality control.

Technical data

Application thickness	1 single coat: max. 3 cm; 2 coats: max. 4 cm
Application temperature	+ 5 °C to + 30 °C (air ambient and substrate)
Bending tensile strength (28 days)	>0.5 N/mm ²
Compressive strength (28 days)	>1.5 N/mm ²
Bulk density of powder	approx. 1.0 kg/dm ³
Density of set mortar	<1.300 kg/m ³
Entrained air content of fresh mortar	> 25 vol. %
Entrained air content of set mortar	> 40 vol. %
Pot life	approx. 45 minutes
Vapor diffusion resistance coefficient (μ)	≤ 15
Capillary water absorption	> 0.3 kg/m ² after 24 hours
Building material class	A1
Class of compressive strength	CSII
Clean-up	water (fresh product)

General notices

- All characteristics mentioned in this data sheet are given in this data sheet require a temperature of + 23 °C without draughts and a relative humidity rate of 50 %.
- We recommend to proceed a salt and damp analysis prior to the application. For surfaces with high salt-contamination we recommend to apply the damp-proof underlay render **weber.san 952** as base coat in a thickness of min. 10 mm up to 20 mm. The thickness of each layer depends upon the determined salt content (refer to the chart under "Consumption").
- A complete drying out of the masonry can only be achieved by additional measures, i.e. application of horizontal barrier by using masonry injection products like **weber.tec 940 E** or **weber.tec 946** as well as functional vertical waterproofing on exterior side of wall.
- weber.san 953 must be protected from sunlight and draughts to avoid too quick drying. The relative air humidity rate should not exceed 60 %, and air and substrate temperature should be + 5 °C to ensure a proper setting.

Specific notices

- Do not mix with other building materials.
- Ensure that the masonry repair render does not come in contact with gypsum-containing materials.
- Especially on waterproofing cement-based slurries hairline-cracking cannot be completely excluded, depending on the specific conditions on job site.
- This kind of cracking does not influence the functionality of damp proof render negatively.
- An imbedding of reinforcement mesh **weber.sys 987** can be performed in order to prevent hairline cracking
- For application comply with national standards or guidelines, if not issued, it is recommended to refer to the instructions of the WTA guideline "Sanierputzsysteme" 2-9-04 (Masonry repair damp-proof systems) as well as "Nachträgliches Abdichten erdberührter Bauteile", 4-6-05/D (Additional Damp-Proofing of Ground-Contacting Structures)

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Preparation of substrates

- Old plasters and paint coats must be removed down to the load-bearing substrate.
- Replace or supplement damaged masonries.
- Scrape brittle masonry joints to a depth of approx. 2 cm and clean the whole surface mechanically.
- The substrate preparation must be done at least 0.8 m beyond the limit of moisture damages; for tailing inner walls or vault ceilings prepare the surface at least 1 m in width, start prepared area at least 1 m from the exterior wall.
- The surface must be free of dust. Damp masonry must have dried sufficiently.
- Apply the quick-setting stipple / bonding coat **weber.san 951 S** net-like with a surface coverage of 50 % (within the WTA-repair system) up to 70 %. This coat must be dried out before apply of the masonry repair render.
- In line with the WTA guideline **weber.san 952** can be used as underlay damp-proof render in case of high salt contamination
- After application it must be smoothed with flat trowel and combed horizontally with a notch trowel.
- The substrate preparation must be adapted to the specific job site conditions.

Working instructions

Mixing

- Mix the bag content with the specified amount of water until lump-free.
- Mix 3 to 4 minutes with batch mixers. Mix 2 minutes with electric drill and stirrer **weber.sys Rührpaddel no. 4**.

Application

- The allowed layer in one operation is 20 to 30 mm. Take care to reach a most uniform thickness. The total thickness for two operations is max. 4 cm, min. 10 mm for each coat.
- The plaster is thrown-on by hawk trowel or plastering machine or applied by flat trowel on the dry stipple / bonding coat. For mechanical application we recommend the plastering machine Monomix FU of the company m-tec (Germany) with rotor D6-3, clip system and additional mixing unit
- In case of one-layer application the plaster is levelled flush with aluminium beams.
- In case of two-layer operation the 1st coat must be raked horizontally without delay with a tiler trowel (notch 6 - 8 mm) or with the trowel **weber.sys Aufstreichkelle** and with 5-mm triangular notch blade (**Zahnleiste no. 2**) before applying the second one. The waiting time between 1st and 2nd layer is one day per mm thickness.
- After approx. 60 minutes, depending on air temperature, treat **weber.san 953** with a sponge board or a plastic float carefully to achieve a smooth surface.
- As finishing coats we recommend the application of smoothing coat **weber.san 956** or silicate- based paint **weber.san Silikatfarbe**.

Consumption

Approx. 10 kg/m² and per cm thickness

Recommendations in accordance with salt contamination:

	Salt content in % by weight		
	< 0.1	0.1 – 0.3	> 0.3
Nitrates	< 0.1	0.1 – 0.3	> 0.3
Chloride	< 0.2	0.2 – 0.5	> 0.5
Sulphate	< 0.5	0.5 – 1.5	> 1.5
Salt contamination	low	medium	high
Recommended layer thickness of damp-proof render	15 mm thickness at least	20 mm thickness at least	40 mm thickness at least, in 2 coats

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Practical information

Color	natural grey
Tools	plastering machine Monomix FU (company m-tec in Germany) with rotor D6-3, clip system and additional mixing unit, electric drill, stirrer weber.sys Rührpaddel No. 4 , hawk trowel, tiler trowel (notch 6 – 8 mm), flat trowel weber.sys Aufstreichkelle and 5-mm notch blade (Zahnleiste no. 2), sponge board or plastic float
Water dosage	approx. 7.5 liters per bag of 25 kg
Storage	the product can be stored min. 12 months in its original unopened packaging, if kept dry.

Packaging	Sales unit	Number per wrapped euro-pallet
Paper bag	25 kg	40 bags

Legal notes

The correct and hence successful application of our products is not within our control. A guarantee can therefore only be accepted for the quality of our products within the framework of our sale and supply conditions but not for their successful use. Observe the safety precautions for protection of health and prevention of accidents given in the safety data sheet and on the label of the packaging.

This data sheet supersedes all earlier technical data on this product. Information supplied by our employees and/or distributors going beyond the scope of this data sheet must be confirmed in writing.

We reserve the right to make changes representing technical progress.

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