

weber.san 164

Waterproof render

Mineral watertight render as basecoat for damp-proof renders and waterproofing products, and as levelling or patching mortar

Fields of application

As watertight render on external earth-contacting basement walls and under damp-proof renders. Also as basecoat (underlayment) for flexible and 2-comp. reactive waterproofing slurries on internal side of basement walls in the cases of ground damp, non-pressure water and pressure water. Also as basecoat (underlayment) on external (earth-contacting) basement walls for bitumen waterproofing thick coatings (PMBC =polymer-modified thick bitumen coatings) or with flexible polymer-modified thick-layer waterproofing coatings (FDP) as well as with rigid and flexible cement-based waterproofing slurries.

Furthermore as waterproof and/or leveling render under flexible epoxy resin or flexible cement-based waterproofing products in swimming pools, service water tanks etc.

In addition, as render and/or leveling mortar on socket parts of facade.

For use indoors and outdoors.

Description

weber.san 164 is a factory-mixed, fiber-reinforced and watertight mineral dry mortar.

Composition

Cement, mineral fillers, fibers, regulating additives, fibers

Main features

- water pressure resistant (up to 0.5 bar), if applied in 2 coats in a total thickness > 20 mm
- fiber-reinforced
- good stability on walls
- very good bonding strength
- high compressive strength
- sulphate-resistant
- as waterproof render and basecoat for post-applied waterproofing products

Technical Data Sheet



- also as levelling/patching mortar
- layer thickness in one layer: 10 - 15 mm and in two layers: max. 25 mm
- for mechanical and manual application
- for use indoors and outdoors

Technical values

Application thickness:	10 - 25 mm
Solid mortar density:	approx. 1.6 kg/dm ³
Compressive strength:	approx. 12 N/mm ² (class CS IV – EN 998-1)
Resistance to water pressure:	up to 0.5 bar
Pull-off strength:	≥ 0.08 N/mm ² (fracture pattern A, B, C)
Thermal conductivity (EN1745):	≤ 0.82 W/m.K (tabulated 50%)
Class of reaction to fire (EN 998-01):	A 1 (non-combustible)

Quality control

weber.san 164 is subject to a regular quality control by self-monitoring according to EN 998-1.

General notes

- Limits of use: do not use **weber.san 164** in immersed areas without application of a complementary waterproofing, for ex. the 2-comp. reactive waterproofing slurry **weber.tec Superflex D 2**.
 - Protect the freshly applied render from rain so as to avoid among others efflorescence and from too quick dehydration, in order to ensure an optimal hardening.
 - Remove cement laitance (hard sinter skin).
 - The consumption figures mentioned in this document refer to the minimum layer thickness of the render. Due to specific substrates and application variations the consumption might vary. Exact consumption must be determined on a job site mock-up (trial area).
 - Adjacent building parts must be separated from the built-in render system.
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Special notes

- Do not add any foreign substances during mixing and application.
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Substrate preparation

- The substrate must be solid, load-bearing, rough and free of all adhesion-impairing particles.
- Scrape brittle and/or salt-loaded masonry joints to a depth of approx. 2 cm; if necessary, sand-blast the whole surface.
- Dispose of refuse old salt-contaminated renders/plasters without delay.
- Pre-wet up to saturation and let dry till the substrate is dull-moist.
- Always apply the mineral stipple/bondcoat **weber.san 160 WTA** with a coverage > 70% - 100%
- The substrate preparation must be adapted to the specific job site conditions.

Working instructions

Mixing

- Mechanical application: the mortar can be applied with all conventional fine render machines with mixing, conveying and spraying equipment.
- Manual application: mix the bag content (25 kg) with approx. 4.75 - 5.5 liters of water until lump-free, using an electric drill and an appropriate stirrer.

Application as internal watertight render under WTA damp-proof renders

- Apply **weber.san 164** in a total thickness of at least 20 mm and max. 25 mm (in 2 layers) in any point on the whole surface, either by using the throw-on technique with a triangular hawk trowel or a flat trowel or by spraying, on the fully hardened bondcoat **weber.san 160 WTA**.
- Rule level with aluminium beam or flat trowel. Rake the freshly applied 1st and 2nd layer horizontally without delay with a tiler trowel (notch 6 - 8 mm) or the flat trowel **weber.sys Aufstreichkelle**, equipped with the 5-mm triangular notch blade Zahnleiste no. 2.
- Afterwards apply the damp-proof render/plaster **weber.san 161**, **162 WTA** or **163 WTA** in a thickness of ≥ 10 mm.
- Alternatively, roughen the second layer of **weber.san 164** with a grid float and apply the textured lime renders **weber.cal 286** (ready-to-use) or **weber.cal 288** (in powder form) or the lime plaster based on air lime with high bonding strength **weber.cal Haft-Kalkputz**.

Other applications

- Request technical advice for all other following applications:

- As basecoat (underlayment) on external (earth-contacting) basement walls for waterproofing works with bitumen waterproofing thick coatings (PMBC =polymer-modified thick bitumen coatings) or with flexible polymer-modified thick-layer waterproofing coatings (FDP) as well as with rigid and flexible cement-based waterproofing slurries.
- As waterproof and/or leveling render under flexible epoxy resin and flexible cement-based waterproofing products in swimming pools, service water tanks etc.
- As render and/or leveling mortar on socket parts of facade.

Practical information

Colour:
natural grey

Application thickness:
minimum: 10 mm
maximum: 25 mm in large areas
maximum 75 mm in small areas (max. 0.25 m²)

Water demand:
approx. 4.75 - 5.5 liters / 25 kg bag

Tools:
Fine render machine or electric drill + stirrer, aluminium beam, flat trowel, trowel **weber.sys Aufstreichkelle** no. 2 + 5-m triangular notch blade Zahnleiste no. 2, tiler trowel (6 - 8 mm), grid float

Storage:
The product can be stored at least 12 months in its original unopened packaging, if kept dry and protected from moisture.

Consumption

10 mm thickness:	approx. 15 kg/m ²	approx. 1.7 m ² / 25 kg
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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.