Technical Data Sheet

weber.san 160 WTA

Normal-setting stipple coat

Mineral, high-performance bondcoat for pre-treatment of old salt- contaminated and damp masonries

Fields of application

As stipple coat/bondcoat for damp-proof renders within the renovation of old damp and salt-contaminated masonries.
The different grain sizes of its aggregates provide an optimal mechanical bond with the post-applied damp-proof renders/plasters **weber.san 161**, **162 WTA** and **163 WTA**, and also the waterproof render **weber.san 164**.
For use indoors and outdoors.

Description

weber.san 160 WTA is a hydraulically-setting and factory-mixed dry mortar according to EN 998-1. It is compliant with the WTA leaflet 2-9-04 (WTA = International Association for Science and Technology of Building Maintenance and Monuments Preservation). With official WTA test certificate (Germany).

Composition

Cement, graded mineral aggregates, moisture-regulating additives, additives for better workability and adhesion

Main features

- egalizes the substrate porosity
- provides a rough surface for post-applied render/plaster layer
- resistant to salts
- purely mineral
- open to water vapour diffusion
- for mechanical and manual application
- for use indoors and outdoors

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Technical values

Application thickness:	3 mm - 6 mm
Delay for overworking:	approx. 1 - 3 days
Yield:	approx. 650 liters/ton
Solid mortar density:	approx. 1.700 kg/m³
Flexural strength (28 days):	> 4 N/mm²
Compressive strength (28 days):	> 6 N/mm² (strength class IV – EN 998-01)
Water vapour diffusion resistance value (μ) (EN 998-1):	≤ 25
Class of capillary water absorption:	W 0
Adhesion tensile strength:	≥ 0.08 N/mm^2 ^(fracture pattern A, B, C)
Thermal conductivity (EN1745):	≤ 0.82 WmK (tabulated P = 50%)
Mortar group (DIN 18550)	P III
Class of reaction to fire (EN 998-01):	A 1 (non-combustible)

Quality control

weber.san 160 WTA is subject to a regular quality control by external monitoring and self-monitoring according to EN 998-1.

General notes

- Do not add any foreign substances during mixing and application.
- Temperature of air, materials and substrate during application and drying: ≥ +5°C
- Protect the freshly applied bondcoat from rain so as to avoid among others efflorescence and from too quick dehydration, in order to ensure an optimal hardening.
- Comply with the national standards and/or guidelines (for ex. DIN 18550); if not issued and if necessary, request technical advice.
- The consumption figures mentioned in this document refer to the minimum layer thickness of the bondcoat. 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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Substrate preparation

- The substrate must be free of dust, efflorescence and loose particles.
- Remove old renders/plasters down to the load-bearing substrate at least 1.0 m beyond the limit of moisture damages.
- Scrape brittle masonry joints to a depth of approx. 2 cm. The masonry joint network will be filled with the damp-proof render **weber.san 161**, **162 WTA** or **163 WTA**.
- Replace or supplement damaged masonries.
- Dispose of refuse old salt-contaminated renders/plasters without delay.
- Dry or strongly absorbent substrates must be pre-wetted; if necessary, apply the mineral bondcoat **weber.san 160 WTA** as stipple coat (net-like).
- 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 render machines (with mixing, conveying and spraying equipment). For full information request technical advice.
- Manual application: mix the bag content (30 kg) with approx. 6 liters of water until lump-free, using an electric drill and an appropriate stirrer.

Application

- Apply **weber.san 160 WTA** in a thickness of 3 mm - 6 mm net-like, either by using the throw-on technique with a triangular hawk trowel orban open hopper spray or by spraying on the prepared substrate.
- After begin of setting roughen the surface, for ex. with a steel broom.
- The coverage of the surface depends on the specific substrate or the post-applied product; under damp-proof renders the surface coverage of **weber.san 160 WTA** is at least 50% and under the watertight render **weber.san 164** the coverage is at least 70%.
- Avoid any deposit of cement laitance (hard sinter skin).
- Respect a drying time of approx. 1 - 3 days according to weather conditions before applying the damp-proof render/plaster **weber.san 161**, **162 WTA** or **163 WTA**.
- Clean mixing equipment and tools with water (fresh product). Hardened material can only be removed mechanically.

Practical information

Grain size:
< 3 mm

Colour:
natural grey

Application thickness:
3 mm - 6 mm

Tools:
Render machine or electric drill + stirrer, triangular hawk trowel, open hopper spray, steel broom

Water demand:
approx. 6 liters / 30 kg

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

Consumption / yield

50% coverage:	approx. 5.0 kg/m²	approx. 6.0 m² / 30 kg

Packagings

Type	Sales unit	Number / euro-pallet
Paper bag	30 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.

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