Technical Data Sheet

weber.san 161

Damp-proof render

Mineral, pore-hydrophobic render with mineral and organic aggregates for renovation of old salt-contaminated and damp masonries

Fields of application

weber.san 161 is suitable for durable renovation of old salt-contaminated and damp masonries. Due to its capillary conductivity, good water permeability and high air void content the product forms an ideal substrate for post-applied and system-compliant overlay renders (top coats), for ex. **weber.star 261 AquaBalance**.
Indoors **weber.san 161** can be painted with all Weber mineral paints (range **weber.cal**).
Outdoors it must be covered with all Weber mineral top coats (range **weber.star** and **weber.top**).
For use indoors and outdoors.

Description

weber.san 161 is a factory-mixed and mineral 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).

Composition

Cement, graded mineral aggregates, organic lightweight aggregates, additives for better workability and adhesion

Main features

- highly open to water vapour diffusion
- water-repellent
- resistant to salts
- easy application
- for mechanical and manual application
- for use indoors and outdoors

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Technical values

Application thickness:	at least 20 mm
Yield:	approx. 950 liters/ton
Solid mortar density:	< 1.3 kg/dm^3
Flexural strength (28 days):	> 1.0 N /mm²
Compressive strength (28 days):	> 2.5 N/mm² (strength class II - EN 998-1)
Water vapour diffusion resistance value (μ) (EN 998-1):	≤ 15
Class of capillary water absorption:	W 0
Water absorption (24 hours):	> 0.3 kg/m²
Water penetration depth (24 hours):	approx. 3 mm
Mortar group (DIN 18550)	P II
Class of reaction to fire (EN 998-1):	A 1 (non-combustible)

Quality control

weber.san 161 is subject to a regular quality control by 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 render/plaster 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.
- 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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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 weber.san 161.
- 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.

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. 8.5 liters of water until lump-free, using an electric drill and an appropriate stirrer.

Application

- Apply **weber.san 161** in a thickness of at least 20 mm, either by using the throw-on technique with a triangular hawk trowel or an open hopper spray or by spraying, on the fully hardened bondcoat **weber.san 160 WTA**.
- In case of strongly absorbent substrates or substrates with different porosity **weber.san 161** is applied “wet-in-wet” in 2 operations; the thickness of the first layer corresponds to 2/3 of the total thickness.
- In case of one-layer application rule level the render flush and perpendicular with a straight edge (for ex. aluminium beam), avoiding honeycombs or gaping holes.
- In case of two-layer application rake the 1st 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 before applying the 2nd layer.
- After initial setting leave the surface of the second layer in accordance with the post-applied product to ensure best key.
- In case of over-working with an overlay render (all Weber mineral top coats of range **weber.star** and **weber.top**) rule off to a flat and in-plane surface with a wooden float (do not smooth the render).

- In case of over-working with a paint (all Weber mineral paints of range **weber.cal**) rule off to a smooth surface with a sponge float or felt float.
- Clean mixing equipment and tools with water (fresh product). Hardened material can only be removed mechanically.

Practical information

Grain size:
< 1 mm

Colour:
natural white

Application thickness:
at least 20 mm

Water demand:
approx. 8.5 liters / 30 kg

Tools:
Render machine or electric drill + stirrer, triangular hawk trowel, open hopper spray, triangular hawk trowel, straight edge (for ex. aluminium beam), tiler trowel (notch size 6 - 8 mm) or flat trowel weber.sys Aufstreichkelle + 5-mm triangular notch blade Zahnleiste no. 2, wooden float, sponge board or felt float

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

Consumption / yield

at least 20 mm thickness:	approx. 21.0 kg/m²	approx. 1.4 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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