

## weber.san 171

Trass lime render coarse (grain size 3 mm) / fine (grain size 1 mm)

### Mineral underlay render for monument preservation, for indoors and outdoors

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#### Fields of application

As underlay render (base coat or base coat + top coat) for indoors and outdoors, in particular in the field of monument preservation. The product meets the building biological criteria and is hence mainly used for historical buildings.

Can be covered with all Weber mineral overlay renders as top coats (range **weber.star** and **weber.top**).

For use indoors and outdoors.

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#### Description

**weber.san 171** is a factory-mixed, mineral dry mortar according to EN 998-1.

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#### Composition

Binders, trass and graded mineral aggregates

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#### Main features

- non-combustible (building material class A 1)
- purely mineral
- highly open to water vapour diffusion
- easy application
- harmless from a point of view of building biology
- for use indoors and outdoors

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## Technical values

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Application thickness:	15 - 20 mm
Yield:	approx. 700 liters/ton
Solid mortar density:	approx. 1.4 kg/dm <sup>3</sup>
Compressive strength:	> 2.5 N/mm <sup>2</sup> (class CS II – EN 998-1)
Water vapour diffusion resistance value (μ) (EN 998-1):	≤ 25
Coefficient of water absorption (w) (DIN 18550):	< 0.5 kg/m <sup>2</sup> * √h
Class of capillary water absorption (EN 998-1):	W 2
Mortar group (DIN 18550):	P II
Class of reaction to fire (DIN 4102):	A 1 (non-combustible)

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## Quality control

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**weber.san 171** is subject to a regular quality control by self-monitoring according to EN 998-1.

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## General notes

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- Do not add any foreign substances during mixing and application.
  - 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 guidelines and/or standards (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 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

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- After a sufficient hardening and uniform drying (3 - 4 weeks), all Weber mineral overlay renders (top coats) - range **weber.star** or **weber.top** - can be applied.
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## Substrate preparation

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- The substrate must be free of dust, efflorescence and all loose particles.
- Remove cement laitance (hard sinter skin).
- Old masonries can be wet, but without salt attack.
- Dry substrates, highly absorbent substrates, substrates with different porosity and old masonries: apply the cement-based splatter coat (bondcoat) **weber.san 160 WTA**, by using the throw-on technique with a triangular trowel or by spraying.
- Dense substrates (e.g concrete): apply the cement-based bonding layer **weber.dur 101** in at least 5-mm thickness at a rate of 6.0 kg/m<sup>2</sup> and comb horizontally with a notched trowel.
- Respect the drying time of the pre-said products – **weber.san 160 WTA** (1 - 3 days) or **weber.dur 101** (at least 1 day per mm thickness) – prior to next applications.
- The substrate preparation must be adapted to the specific job site conditions.

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## Working instructions

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- Temperature of air, materials and substrate during application and drying:  $\geq + 5^{\circ}\text{C}$
- Do not add any foreign substances during mixing and application.
- Clean mixing equipment and tools with water (fresh product). Hardened material can only be removed mechanically.

## Mixing

- Mechanical application: the render 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. 6.5 liters of water until lump-free, using an electric drill and an appropriate stirrer.

## Application as base coat

- Apply **weber.san 171** in a thickness of 15 mm - 20 mm, either by using the throw-on technique with a triangular hawk trowel or by spraying, on the fully hardened bondcoat **weber.san 160 WTA**.
- Rule level with a straight edge (for ex. aluminium beam), avoiding honeycombs or gaping holes.
- Leave the surface in accordance with the post-applied product to ensure best key.

- Due to the addition of trass the setting process of **weber.san 171** is slower; a post-wetting makes sense.
- In case of mineral scratch renders (range **weber.top**) comb the layer horizontally with a notched large trowel or roughen using a hard broom, as soon as the render is "green" (set but not fully hardened).
- In case of other Weber mineral overlay renders (range **weber.star**) rule level the layer to a flat and in-plane surface with a wooden float (do not smooth the render).
- Respect the drying time of **weber.san 171** (approx. 1 day per mm thickness) between different layers and prior to post-applied top coats (overlay renders).

## Application as top coat

- Apply a 1<sup>st</sup> layer (base coat) in a thickness of 15 mm - 20 mm and comb horizontally with a notched large trowel or roughen using a hard broom.
- Next day apply a 2<sup>nd</sup> layer (top coat) in 3 - 4 mm thickness.
- After initial setting rule off to a flat and in-plane surface with a wooden float or to a smooth surface with a sponge float or a felt float in circular motions.

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## Practical information

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Grain sizes:  
approx. 1.0 mm (fine) and approx. 3.0 mm (coarse)

Colour:  
natural grey

Application thickness:  
15 mm - 20 mm

Water demand:  
approx. 6.5 liters / 30 kg

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

# Technical Data Sheet



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## Consumption / yield

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at 15 mm thickness: approx. 23.0 kg/m<sup>2</sup> approx. 1.4 m<sup>2</sup> / 30 kg

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## Packagings

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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.*