

weber.dur 112

Fire-resistant render

Tested mineral fire-resistant render for increased fire resistance duration of concrete building parts

Fields of application

For preventive structural fire protection on concrete building parts.

The product corresponds to the recipe mortar according to DIN 4102-4 Part 5.1.4 (5).

With the lime-cement lightweight render, structural elements in existing buildings can be fire-protected, while concrete thicknesses can be significantly reduced in new buildings.

For the rendering on steel structure refer to the national standards (for ex. DIN 4102-4).

As base coat render **weber.dur 112** can be coated with the thin-layer mineral top coat render **weber.star**. Alternative: **weber.dur 112** is also used as base coat and smooth top coat render in a further working step.

For use indoors and outdoors.

Description

weber.dur 112 is a factory-mixed, mineral dry mortar according to EN 998-1.

Composition

Cement, hydrated lime, lightweight aggregates, additives for better workability and adhesion to substrate.

Main features

- tested fire protection
- high heat resistance
- lime-cement render with high yield
- easy and smooth application
- manual or mechanical application
- for use as single-layer or multi-layer base coat
- for use as or base coat + smooth top coat
- for use outdoors and indoors

Quality control

weber.dur 112 is subject to a regular quality control by self-monitoring according to EN 998-1.

General notes

- Comply with the national guidelines and/or standards (for ex. DIN 18550); if not issued and if necessary, request technical advice.
 - Protect fresh render surfaces from direct sunshine, strong winds or moisture.
 - 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.
 - Remove cement laitance (hard sinter skin) with a notched large trowel prior to application of subsequent products.
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Special notes

- In case of mechanical application use render machines with following equipment: special fan for insulating render - screw pump D 4.1 or D 6-3 - hoses of 25 mm-diameter and maximal length of 15 meters. For full information request technical advice.
 - In case of work interruptions over 15 minutes machine and hoses should be run empty and cleaned.
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Substrate preparation

- The substrate must be load-bearing, clean, dry, free of dust, and all adhesion-impairing particles and substances.
 - Concrete substrates require a preliminary treatment by applying the mineral bonding layer **weber.dur 113** in a layer thickness of 5 mm; after initial setting roughen with a hard broom.
 - For an optimal bond wait for the stiffening of **weber.dur 113** and then overwork **weber.dur 112** within 24 hours. The time is extended at lower temperatures and/or higher humidity.
 - The substrate evenness must comply with the allowed tolerances (variations) defined by the national standards and/or guidelines (for ex. DIN 1053 "Masonry" and DIN 18202 "Tolerances in Building Constructions"). If necessary, take the appropriate remedial measures for levelling the substrates; if in doubt, request technical advice.
 - For the flush and perpendicular alignment of connections and terminations fix the render profiles with the profile bonding and installation mortar **weber.mix 125**.
 - The substrate preparation must be adapted to the specific job site conditions.
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Working instructions

- 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 render machines with the equipment described under “Special notes”.
- Manual application: mix the bag content (15 kg) with approx. 12.5 liters of water until lump-free, using an electric drill and an appropriate stirrer.

Application as base coat render

- Spray/apply **weber.dur 112** and strike off with a stainless steel smoothing trowel.
- Apply in 1 or 2 layers in the appropriate thickness of min. 10 mm - max. 40 mm, depending on substrate evenness.
- Rule level the render flush and perpendicular with a straight edge (for ex. aluminium beam), avoiding honeycombs or gaping holes.
- When used in 2 layers, always wait for a sufficient setting and comb the 1st layer with a notched large trowel or a hard broom; afterwards apply the 2nd layer.
- Apply the thin-layer mineral top coat render **weber.star**.

Application as base coat and top coat render (outdoors/indoors) with overlay renders/paints

- Apply a 1st layer (base coat) in the appropriate thickness of min. 10 mm - max. 35 mm and comb with a notched large trowel or a hard broom.
- Next day apply a 2nd layer (top coat) in approx. 5 mm thickness.
- Rule level to a flat and in-plane surface with a wooden float (do not smooth it).

Practical information

Grain size:
0 - 3 mm

Application thickness:
10 mm - 40 mm

Technical Data Sheet



Water demand:

approx. 12.5 liters / 15 kg

Tools:

Render machine or electric drill + stirrer, stainless steel smoothing trowel, straight edge (for ex. aluminium beam), notched large trowel, hard broom; for application as overlay render: wooden float.

Storage:

The product can be stored at least 6 months in its original unopened packaging, if kept dry and frost-free.

Consumption / yield

20 mm thickness\ (on even substrates)	approx. 9.0 kg/m ²	approx. 1.6 m ² / 15 kg
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Packagings

Type	Sales unit	Number / euro-pallet
Paper bag	15 kg	40 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.