

weber.dur 101

Mineral bonding layer

High-performance mineral dry mortar as bondcoat for underlay renders on concrete

Fields of application

As bondcoat for all mineral **Weber** underlay renders on non-absorbent, dense and smooth substrates like concrete and clinker. Also as smooth top coat render on concrete substrates on socket parts of facades.

Furthermore suitable as building adhesive.

For use outdoors and indoors.

Description

weber.dur 101 is a factory-produced, mineral dry mortar according to EN 998-1.

Composition

Cement, white lime hydrate, graded mineral aggregates, hydrophobing agents, additives for better workability and adhesion to substrate

Main features

- creates an optimal contact surface
- extremely high bonding strength
- quick-setting
- water-repellent
- for use as bondcoat on non-absorbent substrates
- for use as smooth top coat render on concrete substrates on socket parts of facades
- for use outdoors and indoors

Technical values

Application thickness:	3 mm - 5 mm
Compressive strength (28 days):	> 10 N/mm ² (class CS IV - EN 998-1)
Flexural strength (28 days):	≥ 4 N/mm ²
Yield:	approx. 650 liters/ton
Solid mortar density:	approx. 1.700 kg/m ³
Water vapour diffusion resistance value (μ):	≤ 25
Water absorption coefficient (w):	< 0.5 kg/m ² * √h
Class of capillary water absorption:	W 2
Mortar group (DIN 18550):	P III
Class of reaction to fire (EN 13501-1):	A 1 (non-combustible)

Quality control

weber.dur 101 is subject to a regular quality control by self-monitoring according to EN 998-1.

General information

- Protect fresh render surfaces from direct sunlight, strong winds or moisture.
 - 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 bonding layer. 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 load-bearing, dry, free of dust and all adhesion-impairing particles and substances.
 - Remove efflorescence and residues of formwork oil; if necessary, by mechanical means.
 - Remove cement laitance (hard sinter skin) with a notched large trowel.
 - Respect the drying time of at least 1 day per mm thickness prior to application of the underlay render.
 - The substrate evenness must comply with the allowed tolerances (variations) defined by the national standards/guidelines (for ex. DIN 1053 "Brickwork" and DIN 18202 "Tolerances in Building Constructions"). If necessary, take the appropriate remedial measures for levelling the substrates; if in doubt, request technical advice.
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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 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. After a ripening time of 5 minutes mix again shortly.

Application as bondcoat (outdoors/indoors)

- Spray/apply **weber.dur 101** in at least 5 mm thickness and strike off with a notched stainless steel smoothing trowel.
- The pattern of the bondcoat is as follows: webs approx. 5 mm and valleys approx. 2 mm.
- Comb the layer horizontally with a notched trowel without delay.

Application as smooth top coat render (outdoors/indoors) with paints

- Apply **weber.dur 101** in 3 - 5 mm thickness on concrete substrates.
- Rule off **weber.dur 101** to a smooth surface with a felt float in tight circular motions.
- Respect the drying time of **weber.dur 101** (1 day per mm thickness) prior to next applications.
- Outdoors/paints: apply a silicone-resin based paint for exterior use, for ex. **weber.ton 410/411/412/414/420 AquaBalance** or **415** (in case of cracks).
- Indoors/paints: apply a paint for interior use, for ex. **weber.ton 411/412** or **420 AquaBalance**.

Application as building adhesive

- **weber.dur 101** can be used as building adhesive, for ex. for the bonding of insulation boards indoors or on facade socket parts or for the bonding of statically non-loaded masonries (aerated concrete and lime sandstones/blocks, concrete and lightweight concrete blocks).
- Use a flat trowel for bead-point or full-surface bonding of insulation boards.

- Use a plan stone trowel or a notched trowel for application on the prepared substrate or the block/stone layer when bonding masonry blocks. Place the masonry blocks/ stones flush and vertically aligned in the fresh mortar. The consumption mainly depends on the stone sizes; in general, it varies from 1.0 kg/m² (plan stone length 49.8 cm x width 11.5 cm x height 49.8 cm) up to 4.3 kg/m² (plan block length 24.8 cm x width 24.0 cm x height 24.8 cm).

Practical information

Grain sizes:
approx. 1.0 mm and 1.5 mm

Colours:
natural white, natural grey

Application thickness:
3 mm - 5 mm

Water demand:
approx. 6 liters / 30 kg

Tools:
Render machine or electric drill + stirrer, stainless smoothing trowel, notched trowel; as smooth top coat render: felt float; as building adhesive: flat trowel, plan stone trowel or notched trowel

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

Consumption / yield

Bondcoat (notched trowel):	approx. 5.0 kg/m ²	approx. 6.0 m ² / 30 kg
Smooth render:	approx. 5.0 kg/m ²	approx. 6.0 m ² / 30 kg
Bead bonding:	approx. 3.5 kg/m ²	approx. 8.5 m ² / 30 kg
Full-surface bonding:	approx. 4.0 kg/m ²	approx. 7.5 m ² / 30 kg
Bonding of masonry blocks:	depending on block sizes	

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.