

weber.star 280 AquaBalance

Mineral freestyle top render

Mineral top render with individual, classic and modern texture, biocide-free

Fields of application

As overlay render (top coat) for indoors and outdoors on **weber.dur** underlay renders (base coat). Also as finish top coat on the insulating render **weber.therm** and on **weber.therm** Etics systems (external thermal insulation composite systems).

Particularly suitable for fine-grained individual, classic and modern textures, such as broom render, comb render, trowel render and country house render.

For use indoors and outdoors.

Description

weber.star 280 AquaBalance is a factory-mixed, mineral dry mortar according to EN 998-1. Its final appearance is a smooth texture or a fine-grained texture.

Composition

White cement, white hydrated lime, graded mineral aggregates, lime-, cement- and lightfast pigments, hydrophobing agents, additives for better workability and adhesion to base coat (underlay render).

Main features

- without biocidal film preservation
- without preservatives
- hydrophilic surface with a balanced moisture management
- excellent and durable protection against formation of algae and fungi
- high protection against driving rain (exposure class III with rainfall over 800 mm according to DIN 4108)
- creates a healthy living climate thanks to its optimal water vapour permeability
- very low tension when hardening

- high yield
- different freestyle classic and modern textures for facades: broom, comb, trowel and country house
- soft consistency
- for mechanical and manual application
- for use indoors and outdoors

Technical values

Compressive strength (28 days):	≥ 1 N/mm ² (class CS I - EN 998-1)
Coefficient of water absorption (w) (DIN 18550):	< 0.5 kg/m ² * √h
Water vapour diffusion resistance value (μ) (EN 998-1):	≤ 20
Water vapour diffusion-equivalent air layer thickness (s _d) (EN ISO 7738-2):	< 0.1 m
Class of capillary water absorption (EN 998-1):	W 1
Maximum water absorption: Drying at +20°C/65% r.h. within 18 hours:	650 g/m ² 450 g/m ²
Mortar group (DIN 18550):	P II
Class of reaction to fire (EN 13501-1):	A 1 (non-combustible)

Quality control

weber.star 280 AquaBalance is subject to a regular quality control by external monitoring and self-monitoring according to EN 998-1.

General notes

- Protect fresh render surfaces from direct sunlight, strong winds or moisture.
- 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.

Special notes

- After drying the render colour might vary due to natural deviations of raw materials, render texture as well as application and drying conditions. For the same reasons the render colour might deviate from the **Weber** dry sample or colour chart. Colour variations cannot be considered as quality loss or as justified claim.
- In case of over-painting top renders it is always recommended to use paints with AquaBalance technology.
- In case of colour variations due to application and drying conditions apply the egalizing paint **weber.ton 414 AquaBalance** (one off-rolling coat) in order to even out any differences in shade of the render surface.
- If possible, order the whole material quantity for the building site in one. If any buckets with different batch numbers, mix them with one another.
- Thanks to its optimized moisture management **weber.star 280 AquaBalance** offers a very high and durable protection against algae and fungal growth.
- Permanent high humidity level and dirt deposits for ex. in cases of application on socket areas of facades, faulty drainage and planting of trees close to buildings can promote the formation of algae and fungi.

Substrate preparation

- The substrate must be load-bearing, dry, free of dust and all adhesion-impairing substances.
- Rule level the base coat (underlay render).
- Respect the drying time of the prevailing base coat prior to next applications.
- Depending on the weather conditions, pre-wet the base coat or use the universal primer **weber.prim 403**.
- The substrate preparation must be adapted to the specific job site conditions.

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.

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 (25 kg) with approx. 7.9 liters of water until lump-free, using an electric drill and an appropriate stirrer.

Application

- Depending on the desired pattern spray **weber.star 280 AquaBalance** or apply by using the throw-on technique with a triangular hawk trowel and strike off with a stainless steel smoothing trowel onto the prepared/primed substrate.
- Application thickness too depends on the requested finish texture; it should not exceed 5 mm.
- Without delay work to the texture; different finish patterns are possible, using a specific tool (see hereunder).
- **Broom texture**: brush horizontally or vertically with a broom; this creates a fine-graded structure that bears the handwriting of the craftsman.
- **Comb texture**: comb horizontally or vertically with a render comb or a notched trowel (or similar); the strictly geometric structure is particularly suitable for specific surfaces.
- **Trowel texture**: draw lines with the edge of a flat trowel; this technique offers great scope for design in different line shapes (arc or fan shape or also in straight horizontal or vertical lines). Print pattern can be obtained by pushing the trowel flat onto the render. Furthermore, strike pattern can be obtained by striking the trowel in any desired direction or form.
- **Country house texture**: it is created by texturing the surface with a sponge or a bricklayer's brush. In general, it emphasizes voluminous building structures.
- The texturing works should always be carried out by one craftsman in order to obtain a uniform surface and texture, because every craftsman has his own "handwriting".
- Respect following recommendations in order to avoid differences in colour as well as tool marks on the render coat and breaks etc. between working sections: do not use different tools, work "wet-in-wet" and do not smooth already stiffened render surfaces.
- Do not first finish a scaffolding layer and then go down one store lower before carrying on the rendering works. The render must be applied "wet-in-wet" in the transition area at the lower scaffolding level.
- Clean mixing equipment and tools with water (fresh product). Hardened material can only be removed mechanically.

Practical information

Grain sizes:

1.5 mm and 3.0 mm

Colours:

white (diamond 0010) and colours according to **Weber** colour chart

Technical Data Sheet



Application thickness:

1.5 mm - 5.0 mm

Water demand:

approx. 7.9 liters / 25 kg

Tools:

Render machine or electric drill + stirrer, triangular hawk trowel, stainless steel smoothing trowel, broom, render comb or notched trowel, flat trowel, bricklayer's brush or sponge.

Storage:

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

Consumption / yield

1.5 mm grain size:	approx. 2.8 kg/m ²	approx. 8.9 m ² / 25 kg
3 mm grain size:	approx. 6.0 kg/m ²	approx. 4.2 m ² / 25 kg

Packagings

Type	Sales unit	Number / euro-pallet
Paper bag	25 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.