

weber.star 221 AquaBalance

Mineral floated top render, marble grains

Mineral top render with brilliant white surface and grain-to-grain 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 (external thermal insulation composite systems).

For use indoors and outdoors.

Description

weber.star 221 AquaBalance is a factory-mixed, mineral dry mortar according to EN 998-1. Its final appearance is a floated finish with a stippled grain-to-grain texture with marble grains.

Composition

White cement, white hydrated lime, graded mineral aggregates (among others marble grains), 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)
- weathering-resistant
- creates a healthy living climate thanks to its optimal water vapour permeability
- extremely white appearance
- noble and granular floated finish with a stippled grain-to-grain texture

- for mechanical and manual application
- for use indoors and outdoors

Technical values

Compressive strength (28 days):	≥ 1.5 N/mm ² (class CS II - 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:	650 g/m ²
Drying at +20°C/65% r.h. within 18 hours:	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 221 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 colour variations due to application and drying conditions apply the equalizing paint weber.ton 414 AquaBalance (one off-rolling coat) in order to even out any differences in shade of the render surface.
- In case of over-painting top renders it is always recommended to use paints with AquaBalance technology (for ex. weber.ton 414 AquaBalance).
- 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 221 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).
- Outdoors: depending on the weather conditions, pre-wet the base coat or apply the universal primer **weber.prim 403**.
- Indoors: use the isolating primer **weber.prim 404** on smoothed render surfaces, gypsum paperboards, solid-gypsum boards etc.
- Respect the drying time of the prevailing base coat.
- 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. 7.1 liters of water until lump-free, using an electric drill and an appropriate stirrer.

Application

- Spray/apply **weber.star 221 AquaBalance** onto the prepared/primed substrate and strike off with a stainless steel smoothing trowel to grain thickness.
- Without delay work to the texture, using a plastic (PVC) trowel or a polystyrene (EPS) float, depending on the desired pattern.
- 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 storey 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, 2.0 mm and 3.0 mm

Colours:

white (diamond 0020) and colours according **Weber** colour chart

Water demand:

approx. 7.1 liters / 25 kg

Tools:

Render machine or electric drill + stirrer, stainless steel smoothing trowel, plastic (PVC) trowel or polystyrene (EPS) 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



Consumption / yield

1.5 mm grain size:	approx. 2.7 kg/m ²	approx. 9.3 m ² / 25 kg
2 mm grain size:	approx. 3.0 kg/m ²	approx. 8.3 m ² / 25 kg
3 mm grain size:	approx. 3.7 kg/m ²	approx. 6.8 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.