

weber.star 224 AquaBalance

Mineral floated top render

Mineral top render with a grain-to-grain structure, biocide-free



Product profile

- excellent and long-term protection against algae and fungi
- as finish top coat on the insulating render **weber.therm** and **weber.therm** ETICS
- as an overlay render (top coat) on **weber.dur** underlay renders (base coat)

Product advantages

- without biocides, without film preservation
- hydrophilic surface with balanced moisture management, preventing the formation of algae and fungi
- long time for texturing works

Product description

weber.star 224 AquaBalance is a factory-mixed, mineral dry mortar according to DIN EN 998-1.

Fields of application

weber.star 224 AquaBalance is used as an overlay render (top coat) for indoor and outdoor use on **weber.dur** underlay renders (base coat). Also, as a finish top coat on the insulating render **weber.therm** and **weber.therm** ETICS (external thermal insulation composite systems).

Product features

- without biocides and preservatives
- hydrophilic surface with balanced moisture management, preventing the formation of algae and fungi
- long time for texturing works
- for ceilings and walls
- lively and granular floated finish with a grain-to-grain texture
- creates a healthy living climate through optimal water vapour permeability
- high protection against driving rain (exposure class III with rainfall over 800 mm according to DIN 4108)
- for mechanical and manual application

Consumption / yield

1.5 mm grain size	approx. 2.3 kg/m ²	approx. 10.9 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. 6.7 m ² /25 kg
4 mm grain size	approx. 5.0 kg/m ²	approx. 5.0 m ² /25 kg

Technical values

Grain sizes	1,5 / 2 / 3 / 4 mm
Water permeability rate w (DIN EN 1062-3)	0.5 kg/m ² ·√h

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Mineral floated top render

Water vapour diffusion-equivalent air layer thickness (sd) (EN ISO 7738-2)	< 0.1 m
Class of capillary water absorption	W1
Maximum water absorption	650 g/m ²
Drying at +20°C/65% r.h. within 18 hour	450 g/m ²
Compressive strength	≥ 2.5 N/mm ²
Strength class	CS II
Mortar group (DIN 18550)	PII
Reaction to fire [EN13501-1]	A1
Base color	white (Diamond 0010)
Composition	white cement, white hydrated lime, graded mineral aggregates, additives for better workability and adhesion to the base coat, lime-, cement- and lightfast pigments, hydrophobing agents
Water consumption (absolute)	6.7 l/25 kg
Color shades	colours according to Weber colour chart
Water vapour diffusion resistance coefficient μ	≤ 20

Storage

Shelf life	min. 12 months
Storage conditions	In the original unopened packaging, dry and protected from moisture.

Application

Surfaces

plaster

Surface preparation

- The substrate must be clean and load-bearing, and free from any substances that could impair adhesion.
- The base coat (underlay render) must be levelled.
- Depending on the weather conditions, the base coat should be pre-wetted in advance (preferably the day before) or the universal primer **weber.prim 403** should be applied.
- Observe the drying time of the prevailing base coat.
- Indoors: use the isolating primer **weber.prim 404** on smoothed render surfaces, gypsum plaster boards, solid-gypsum boards, etc.

Application

- The temperature of the air, materials used and substrate must be at least +5°C during application and drying.
- Do not add any foreign substances during mixing and application.

Mechanical application:

The render can be applied using all conventional rendering machines.

Manual application:

Thoroughly mix the contents of the bag with the specified amount of water to achieve a consistency suitable for application.

- Spray/apply **weber.star 224 AquaBalance** onto the prepared/primed substrate, then strike off with a stainless smoothing trowel to grain thickness.
- Start working on the texture without delay, using either a plastic (PVC) trowel or a polystyrene (EPS) float depending on the desired pattern.

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- Follow the recommendations to avoid colour differences as well as tool marks on the render coat and breaks, etc.:
 - do not use different tools;
 - work quickly using the 'wet-in-wet' technique;
 - do not smooth surfaces that have already stiffened;
 - work simultaneously at all scaffolding levels to avoid differences in visual appearance.

General notes

Freshly applied coating surfaces must be protected from direct sunlight, strong wind, and moisture exposure during the curing phase.

Application and execution in accordance with DIN 18 350 VOB/C and DIN 18 550.

The consumption figures mentioned in this document refer to the minimum thickness of the render layer. Due to variations in substrates and application methods, the actual consumption may differ. Exact consumption must be determined on a mock-up of the job site (trial area).

Adjacent building parts must be separated from the built-in render system.

Occupational safety and environmental protection:

Health and environmental protection are always our top priorities. Therefore, please observe the following instructions:

- Avoid eye and skin contact by wearing suitable protective clothing (safety goggles and gloves).
- Wear long trousers.
- If contact with the eyes or skin nevertheless occurs, rinse thoroughly the affected area with water immediately and consult a doctor if necessary.
- The longer fresh render remains on your skin, the greater the risk of serious skin damage.
- Ensure thorough ventilation during and after application and drying.
- Avoid eating, drinking or smoking while applying the product.
- Keep it out of the reach of children and keep children away from fresh render.
- Use a combination filter A2/P2 for spray mist.
- Do not pour the product or its residues into bodies of water, drains or onto the ground.
- Only dispose of containers once they are completely empty for recycling.
- Clean tools immediately after use with soap and water.
- Material residues can be mixed with water and disposed of as construction site waste once hardened.
- Always follow the manufacturer's health and safety instructions during the application.

weber.star 224 AquaBalance is subject to regular quality control through external monitoring and self-monitoring in accordance with DIN EN 998-1

Special notes

After drying, the render/plaster colour might vary due to natural deviations of raw materials, as well as the texture of the render/plaster due to application and drying conditions. For the same reasons, the colour of render/plaster may differ from the dry **Weber** sample or colour chart. Such colour variations cannot be considered quality loss or grounds for a justified claim.

If there are colour variations due to application and drying conditions, apply one off-rolling coat of egalising paint **weber.ton 414 AquaBalance** to even out any differences in the shade of the render surface.

If you are painting over the top renders AquaBalance, you must also use paints with AquaBalance technology, such as **weber.ton 414 AquaBalance**.

If possible, order the whole material for the job site at the same time. Packages with different batch numbers must be mixed together.

Thanks to its optimised moisture management **weber.star 224 AquaBalance** provides highly effective and long-lasting protection against algae and fungal growth.

A permanent high humidity level and dirt deposits (for example, in cases of application on socket areas of facades), faulty drainage, and planting trees close to buildings can promote the formation of algae and fungi.

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Packaging units

Type	Unit	PU
sack	25 kilogram	1 sacks

The information in this technical information is based on our current knowledge and experience at the time of printing. However, they do not guarantee in the legal sense.

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