Technical Data Sheet

weber.star 249 AquaBalance

Mineral historical top render

Mineral render with different classic old-fashioned textures

Fields of application

As overlay render (top coat) for achieving historical render structures 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 249 AquaBalance is a factory-mixed, mineral dry mortar according to EN 998-1. Its final appearance is a drag finish texture, with irregular grain runs and grooves.

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
- 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)
- allows several textures full of character for renovation of historical monuments and for modern architecture
- for mechanical and manual application
- for use indoors and outdoors

Saint-Gobain Weber GmbH
Schanzenstr. 84, D-40549 Düsseldorf
Contact: export.de.weber@saint-gobain.com

Technical values

Compressive strength (28 days):	approx. 1.0 N/mm² (class CS I - EN 998-1)
Coefficient of water absorption (w) (DIN 18550):	< 0.5 kg/m² * √h
Water vapour diffusion resistance value (μ) (EN 998-1):	≤ 20
Class of capillary water absorption (EN 998-1):	W 1
Mortar group (DIN 18550):	P II
Class of reaction to fire (EN 13501-1):	A 1 (non-combustible)

Quality control

weber.star 249 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).
- 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 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 different batches, mix them with one another.
- Thanks to its optimized moisture management **weber.star 249 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: ≥ +5°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 complementary equipment: continuous mixer, spray nozzle F 14 mm and hoses of 35-mm diameter. We recommend the machine PFT ZP3. In case of application of 8-mm grain size use a stronger air compressor. For full information request technical advice.
- Manual application: mix the bag content (25 kg) with approx. 5 liters of water until lump-free, using an electric drill and an appropriate stirrer.

Application

- Spray **weber.star 249 AquaBalance** or apply by using the throw-on technique with a triangular hawk trowel or and strike off with a stainless steel smoothing trowel in vertical motions from bottom to top onto the prepared/primed substrate.
- Without delay work to the texture; the material is guided in vertical motions from bottom to top of the facade with an aluminium lath (plasterer's darby) under light and uniform pressure over the structural grain in such a way that it rolls along over the substrate. This operation results in giving irregular grain runs in an uneven matrix, reminiscent of tree bark. This typical texture is created by the fact that the largest grain is pulled along ("dragged") and leaves grooves.
- Depending on the application method and the grain size, an individual drag texture, which results from the size of the rounded rock bodies, will be obtained. As a rule, the application thickness lies between single and double grain thickness.

- 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:
5.0 mm, 6.0 mm and 8.0 mm

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

Water demand:
approx. 5.0 liters / 25 kg

Tools:
Render machine or electric drill + stirrer, triangular hawk trowel (throw-on technique), stainless steel smoothing trowel, wooden beam.

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

Consumption / yield

5 mm grain size: 6 mm grain size: 8 mm grain size:	approx. 6.0 kg/m² approx. 8.0 kg/m² approx. 11.0 kg/m²	approx. 4.2 m² / 25 kg approx. 2.1 m² / 25 kg approx. 2.3 m² / 25 kg
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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.