

weber.pas 481 AquaBalance

Silicone resin floated top render

Hydrophilic silicone resin top coat with a decorative grain-to-grain texture, biocide-free

Fields of application

As silicone-based overlay render (top coat) for indoors and outdoors with excellent and durable protection against algae and fungi.

Also suitable as finish top coat on **weber.dur** underlay renders (base coat) and on **weber.therm** Etics (external thermal insulation composite systems).

For use indoors and outdoors.

Description

weber.pas 481 AquaBalance is a factory-mixed and ready-to-use top coat in pasty (wet) form according to EN 15824. Its final appearance is a floated finish with a grain-to-grain texture.

Composition

Silicone resin, organic binders, graded mineral aggregates, additives for better workability and adhesion to base coat (underlay render), high-quality pigments, without biocidal facade preservation (film preservation)

Main features

- without biocidal film preservation
- controlled hydrophilic surface with a balanced moisture management, preventing formation of algae and fungus
- very open to water vapour
- easy application
- particularly weather-resistant
- resistant to mechanical loads
- solvent-free
- for use indoors and outdoors

Technical values

Water permeability rate (EN 1062-3):	< 0.3 kg/m ² . √h
Water permeability (EN 15824):	W ₂
Water vapour diffusion stream density (EN 1062-1):	V ₁
Water vapour diffusion stream density (EN 7783-2):	> 150 g/m ² . d (= per day)
Water vapour diffusion-equivalent air layer thickness (ISO 7783-2):	< 0.2 m
Maximum water absorption:	650 g/m ²
Drying at +20°C/65% r.h. within 18 hours:	450 g/m ²
Bonding strength:	≥ 0.3 MPa
Class of reaction to fire (EN 13501-1):	A 2-s1, d0 (non-combustible)

Quality control

weber.pas 481 AquaBalance is subject to a regular quality control by self-monitoring.

General notes

- Material dries by evaporation of water. Therefore, damp weather will delay drying. Complete drying may take up to 2 weeks.
- During application and drying, the temperature of air, materials and substrate must always be above +5°C and the relative humidity rate must be below 80 %.
- 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.
- 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.
- In case of over-painting top renders it is always recommended to use paints with AquaBalance technology (for ex. **weber.ton 411 AquaBalance**).
- Thanks to its optimized moisture management **weber.pas 481 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 fungi and algae.
- The product in grain sizes < 1.5 mm can only be applied in 2 layers according to the “Ticino method” (refer to Working instructions).

Substrate preparation

- The substrate must be load-bearing, dry, clean and free of loose particles.
- Carefully clean old underlay renders.
- Rule the base coat (underlay render) level.
- Respect the drying time of the prevailing base coat prior to next applications.
- Apply the universal primer **weber.prim 403**.
- The substrate preparation must be adapted to the specific job site conditions.

Working instructions

- Stir well with a slow-speed electric drill and stirrer before use. If necessary, add some water to achieve best consistency.
- Do not add any foreign substances during mixing and application.
- Apply weber.pas 481 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 either a plastic (PVC) trowel or a stainless steel smoothing trowel, depending on the desired pattern.
- Whenever a very fine plaster surface is asked for, it is possible to meet this demand by proceeding in 2 layers according to the “Ticino method”. In this case apply a first layer of weber.pas 431 AquaBalance in a grain thickness of 1.5 mm; afterwards it is troweled off, but not textured. Next day a second coat in a grain thickness of 0.5 mm or 1.0 mm is applied, troweled off and textured with the pre-said tools so as to obtain the floated finish.
- 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-on-wet”, do not smooth already stiffened render surfaces and work simultaneously at all scaffolding levels to avoid differences in the visual appearance.

Practical information

Grain sizes:

0.5 mm, 1.0 mm, 1.5 mm, 2.0 mm and 3.0 mm

Colours:

white and colours according to the **Weber** colour chart; special colours upon request

Application thickness:

0.5 mm - 3.0 mm

Tools:

Electric drill + stirrer, spray gun, stainless steel smoothing trowel, plastic (PVC) trowel

Storage:

The product can be stored at least 12 months in its original unopened packaging, if kept protected from direct sunlight and frost-free (at temperatures between +5°C and +30°C).

Consumption / yield

0.5 mm grain size:	approx. 1.2 kg/m ²	approx. 20.8 m ² / 25 kg
1.0 mm grain size:	approx. 1.9 kg/m ²	approx. 13.1 m ² / 25 kg
1.5 mm grain size:	approx. 2.9 kg/m ²	approx. 8.6 m ² / 25 kg
2.0 mm grain size:	approx. 3.5 kg/m ²	approx. 7.1 m ² / 25 kg
3.0 mm grain size:	approx. 4.5 kg/m ²	approx. 5.5 m ² / 25 kg

Packagings

Type	Sales unit	Number /euro-pallet
Plastic bucket	25 kg	24 buckets

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.