

Technical data sheet



Uses

- overlay render for **weber.therm Dämmputz** (insulation render)
- overlay render for **weber.therm Etics** systems
- for indoors and outdoors

Advantages

- can be given a pattern quickly
- for application on walls and ceilings
- modern and rough structure (grain-to-grain)



Mineral overlay render for decorative surfaces with rough structure

Fields of application

weber.star 220 is used as overlay render for indoors and outdoors on **weber.dur** underlays, as well as top render plaster for **weber.therm Dämmputz** (insulation render) and for all solid-layer (composite) **weber.therm Etics** systems.

Description

weber.star 220 is a factory-mixed, mineral dry mortar according to EN 998-1.

Composition

White cement, white lime powder, well-graded mineral aggregates, lime and cement light-resistant pigments, hydrophobic agents, additives for better workability and bonding.

Main features

- provides an excellent living comfort in rooms due to its optimal vapour permeability
- provides protection against driving rain (class III according to DIN 4108)
- for manual and mechanical application

Quality control

weber.star 220 is subject to a regular external and internal quality control in accordance with EN 998-1.

Date: 26.5.2014



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Register court: AG Düsseldorf HRB 65250 . VAT-No.: DE 122 39 2875

Supervisory Board: Hartmut Fischer . Management Board: Alfred Hörner (chairman), Roman Lackner

Technical data

Coefficient of water absorption (w) (DIN V 18550)	< 0.5 kg/m ² · √h
Coefficient of resistance to water vapour diffusion (μ) (EN 998-1)	≤ 20
Water vapor permeability (= air layer thickness)	< 0.1 m
Category of water permeability (EN 998-1)	W 2
Maximal water absorption	150 g/m ²
Drying at + 20 °C and 65% r.h. in 18 hours	100 g/m ²
Compressive strength	≥1.5 N/mm ²
Category of compressive strength (EN 998-1)	CS II
Mortar group (DIN V 18550)	P II
Fire behaviour (EN 13501-1)	A1

General notices

- For application comply with the national standards and guidelines.
- Protect fresh render from direct sun radiation, strong wind and humidity loads.
- Temperature of substrate, air and material during application and setting must be above + 5°C.
- Do not mix any other substances.
- The consumption figures mentioned in this data sheet are related to the minimum layer thickness of the render.
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- Building parts must be separated from the built-in render system.

Specific notices

- The colour of the render after drying might vary due to natural deviations of raw materials, render structure as well as application and drying conditions. Colour variations cannot be considered as quality loss or as justified claim.
- In case of colour variations due to application and drying conditions we recommend to apply the egalizing paint **weber.ton 414**. This item must be foreseen in the specifications or bills of quantities.
- It is recommended to order the whole quantity for the job site. Mix the different production batches, if any.
- If a higher resistance against fungi and algae is requested, we recommend to use the biocide-free product range **weber.star 220 AquaBalance**.
- Permanent high humidity level for ex. application on socket areas of facades, planting of trees close to buildings, dirt or micro-organic dust (pollens of meadows) will lead to a higher and quicker formation of fungi and algae.

Preparation of substrates

- The substrate must be dry, sufficiently load-bearing, free of dust and any other adhesion-impairing substances.
- The underlay render must be smoothed and even.
- In accordance with weather conditions, pre-wet it early enough (best practice is one day prior to application of overlay render) or apply the primer **weber.prim 403**.
- Old renders must be cleaned with high-pressure water; wait for a good drying.
- Respect the drying time for each specific substrate.
- According to the weather conditions the underlay render must be pre-wetted in time (at least at the day before) or the universal primer **weber.prim 403** must be applied.

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- Use the primer **weber.prim 404** on smoothed mineral renders, gypsum paperboards and gypsum boards and similar substrates.
- In case of special substrates or those deviating from standards ask our technical department.

Working instructions

- **weber.star 220** can be applied with any usual plaster machine or mixing pump after agreement of our technical department.
- If applied by hand mix the bag content with the specified water ratio (approx. 8 litres per 30 kg bag) with a metal stirrer thoroughly before use, till a homogeneous consistency is obtained.
- Apply the render with a flat trowel in a thickness in accordance to its grain size on the primed substrate.
- Egalize the fresh coat with a plastic trowel or with an EPS board according to the wished structure.
- For avoiding colour marks or work marks do not use different tools.
- Always work fresh-in-fresh.
- Do not smooth material that has already stiffened.

Consumption / yield

Grain size 1.5 mm : approx. 2.3 kg/m² - approx. 13 m²
 Grain size 2.0 mm : approx. 3.0 kg/m² - approx. 10 m²
 Grain size 3.0 mm : approx. 3.7 kg/m² - approx. 8.1 m²
 Grain size 4.0 mm : approx. 5.0 kg/m² - approx. 6 m²

Practical information

Color	white and 161 colors according to Weber color chart
Water dosage	approx. 8 litres / 30 kg bag
Tools	serrated stainless steel trowel
Layer thickness	corresponds approx. to grain size
Drying time	depends upon climatic conditions; at least 3 days at + 20° C and 60% relative humidity rate
Storage	the product can be stored for up to 12 months, if kept in dry conditions and protected from humidity.

Packaging	Sales unit	Number per wrapped euro-pallet
Paper bags	30 kg	42 bags

Legal notes

The correct and hence successful application of our products is not within our control. A guarantee can therefore only be accepted for the quality of our products within the framework of our sale and supply conditions but not for their successful use. Observe the safety precautions for protection of health and prevention of accidents given in the safety data sheet and on the label of the packaging.

Date: 26.5.2014



This data sheet supersedes all earlier technical data on this product. Information supplied by our employees and/or distributors going beyond the scope of this data sheet must be confirmed in writing.
We reserve the right to make changes representing technical progress.

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