Technical data sheet

weber pluscalc

Hybride plaster suitable for smoothing and felt-finishing, indoors

Hybride plaster with lime-like properties for suitable for smoothing and felt-finishing

Product profile

— for mechanical and manual application
— for all types of masonry
— easily workable for both smooth and felt finishes

Product advantages

— pleasant living climate thanks to optimum room humidity regulation
— mould-inhibiting due to high pH value
— maximum crack resistance due to the low-stress hardening process

Product description

weber pluscalc is a factory-mixed, mineral dry mortar in accordance with DIN EN 998-1.

Fields of application

weber pluscalc is a hybrid interior plaster with lime-like properties. Consisting of fractionated sands and a CO_2-reduced special binder, it can be used in all interior areas on all types of masonry, concrete with a bonding layer or as a plaster base coat, especially in biological-ecological house construction and for demanding renovation work in listed buildings. It can be used as a base coat and ready-to-use plaster, including damp rooms, such as domestic kitchens and bathrooms, as well as on ceilings and walls. All mineral final coats from **Weber,** as well as all solvent-free paints, can be applied on top of **weber pluscalc,** which is easy to apply and suitable for both smooth and felt-textured finishes. Its physical building properties, such as good room humidity regulation and vapour diffusion openness, provide a healthy and comfortable living climate. Thanks to its high pH value, **weber pluscalc** is mould-inhibiting. Due to its specific low-stress hardening process, it offers the best crack resistance.

Product features

— mould-inhibiting with high pH value
— room humidity-regulating for a pleasant living climate
— maximum crack resistance due to the low-stress hardening process
— suitable for smooth finish
— suitable for felt finish
— paintable interior plaster
— awarded with the seal Blue Angel

Consumption / yield

at 10 mm thickness	approx. 12.0 kg/m²	approx. 2.6 m³/30 kg
at 15 mm thickness	approx. 18.0 kg/m²	approx. 1.7 m³/30 kg
Fresh mortar yield	approx. 850 l/tonne	

Technical values

Grain sizes	approx. 1 mm
Layer thickness	10 - 30 mm
Water demand	approx. 8 l/30 kg
Water vapour diffusion resistance [μ]	≤ 10
Class of capillary water absorption	W0

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Reaction to fire [EN13501-1]	A1
Compressive strength	approx. 2 N/mm²
Strength class	CS I
Base color	natural beige
Application tool	render machine, smoothing trowel, notched trowel, broom, stainless steel plaster rabot (Rabo-Speed)
Composition	hybrid binder consisting of a special combination of mineral binders and pozzolanic compounds
Dry Bulk Density	≤ 1,200 kg/m³

Storage

Shelf life	min. 4 months
Storage conditions	In the original unopened packaging, dry and protected from moisture.

Application

Surfaces

masonry, plaster, concrete

Surface preparation

— The substrate must be load-bearing, dry (for a short time with a residual moisture content of 3% by weight) and free from dust and all adhesion-diminishing substances.
— There must be no prevailing pressure moisture inside the substrate. Any rising or penetrating moisture must be removed.
— If necessary, dry or strongly absorbent surfaces must be pre-wetted.
— Alternatively, strongly absorbent surfaces can be pre-treated with the regulating primer **weber.prim 405** (diluted 1 : 2 with water).
— Dense surfaces (e.g. concrete) require pre-treatment with the bonding primer for lime plasters **weber.prim pluscalc** or the high-bonding lime plaster **weber.cal Kalk-Haftputz,** as a grooved levelling compound.
— Observe the drying time after the plaster base is pre-treated.
— In the case of unsuitable render bases (e.g. deviations from DIN 1053 "Masonries" and DIN 18202 "Tolerances in Building Constructions"), take appropriate remedial levelling measures if necessary; if in doubt, request technical advice.

Application

Mechanical application:
The mortar can be applied with all conventional plastering machines.
Manual application:
Thoroughly mix the contents of the bag with the specified amount of water to achieve an application-ready consistency.

— Apply **weber pluscalc** to a thickness of 10 - 30 mm.

— **Application as base coat:** in the case of absorbent substrates and/or substrates with different porosity it is recommended to apply **weber pluscalc** in 2 layers. Spray/apply a first layer, it should be 2/3 of the total thickness. Spray/apply a second layer “wet-in wet” and strike off with a stainless steel smoothing trowel. Once stiffening begins, rule and level again, then scratch the plaster with a nail float.

— **Single-layer application:** spray/apply one layer in 2 operations “wet-in-wet” and then strike off with a stainless steel smoothing trowel. The thickness of the first layer should be 2/3 of the total thickness. Once stiffening begins, rule level again and float finish with a wooden float or sponge finish with a sponge or felt float.

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— **Felt-finish plaster (two-layer application):** spray/apply the first layer and then strike off with a stainless steel smoothing trowel. Roughen with a hard broom. The next day, apply a second layer in the grain size and sponge finish with a sponge or felt float.

— **Smooth plaster with skimcoat:** spray/apply one layer and strike off with a stainless steel smoothing trowel. While it is still damp, rule it level with a flat trowel at a shallow angle to press in loose grains. After 1 mm of standing time per day, smooth **weber pluscalc** with smooth plaster **weber pluscalc Glätte** or the lime-based skimcoat **weber.cal 178**.

— **Old buildings (layer thicknesses > 30 mm):** work in several layers with a standing time (approximately 1 day/mm). Apply the first layer to a thickness of approximately 20 mm thick, covering the masonry stones. Pull it tight without leaving any nests and roughen it well. Apply a levelling layer of up to 20 mm, pull it tight without leaving any nests and roughen it well. Apply the final layer to a thickness of approximately 5-10 mm and rule level. Once stiffening begins, rule level again and float finish with a wooden float. The reinforcing woven mesh **weber.therm 310** should be embedded in the plaster on all substrates with a tendency to change shape (e.g. at the corners of all openings or the junctions of different materials).

— **Application as an interior base coat under ceramic wall tiles and slabs:** if the surface is used for ceramic wall coverings in a thin bed, the plaster surface must be roughened with a grid float in tight circular motions before application of ceramic coverings; do not carry out a floated or smooth finish.

General notes

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.

Do not add any foreign substances when mixing or applying the product.

The air temperature, the used materials and the surface must not fall below +5 °C during application and drying.

Protect fresh render surfaces from frost and rapid drying for at least 24 hours.

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.

weber pluscalc is subject to regular quality control through self-monitoring in accordance with DIN EN 998-1 and DIN 18550.

Special notes

weber pluscalc is suitable for use indoors as a base coat under ceramic wall tiles and slabs, with a total weight of thin-layer masonry mortar and tiles of up to 25 kg/m².

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Coating: possible after drying with standard **Weber** paints in accordance with BFS data sheet no. 10 (e.g. **weber pluscalc** interior paint or **weber.cal** lime paint).

Packaging units

Type	Unit	PU
sack	30 kilogram	42 sacks / palett
silo		

Registered office: maxit west GmbH | Paul-Mathis-Str. 1 | 79291 Merdingen
Contact: info@weber-maxit.de | www.weber-maxit.de
Commercial register: AG Freiburg im Breisgau HRB 733505 | VAT no.: DE455990071