

Technical Data Sheet.

bauprotec RHS – Renovation and Bonding mortar

Product description

bauprotec RHS is a mineral, fibre-reinforced lime-cement mortar for indoor and outdoor use with excellent handling characteristics. bauprotec RHS is a water-repellent product manufactured on the basis of hydrated lime, cement, sands and additives for improvement of process ability. bauprotec RHS is used for many applications: mesh filling, façade filling, adhesive and reinforcement mortar, bonding mortar on critical surfaces etc. bauprotec RHS can be used both as ground for further coatings and for fine float work (reveal plaster, float plaster). bauprotec RHS is suited for automatic and manual processing.

> Technical data and specifications

Standard	CS III as per EN 998
Compressive strength	ca. 6.0 N/mm ²
Adhesion	≥ 0.08 N/mm ²
Yield as per standard	ca. 700 l/t ca. 140 m ² at 5 mm layer thickness ca. 3.5 m ² per bag of 25 kg at 5 mm ca. 17.5 l per bag of 25 kg
Consumption	ca. 1.4 kg/ m ² each mm of layer thickness
Water requirement	ca. 6 l per bag of 25 kg
Grain size	0 – 1 mm
Water vapour permeability coefficient	μ ≤ 25
Reaction to fire	building material class A 1, non-combustible

> Logistics and safety notes

Commercial form	bags
Shelf life	given dry and protected storage, bauprotec RHS in bags of 25 kg can be stored for 9 months after date of production
Safety notes	see MSDS

> CE marking



CASEA GmbH
Pontelstraße 3
99755 Ellrich
Germany

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CASEA-114 740
DIN EN 998-1:2010
Normal plaster mortar GP
Plastering of ceilings and walls inside and outside of buildings

Reaction to fire	A1
Compressive strength	CS III
Capillary water absorption	W2
Water vapour permeability coefficient	$\mu \leq 25$
Adhesion	$\geq 0.08 \text{ N/mm}^2$ FP A,B or C
Thermal conductivity (tabular value)	$\lambda_{10, \text{dry, mat}} \leq 0.39 \text{ W/(mK)}$ for P=50% $\lambda_{10, \text{dry, mat}} \leq 0.43 \text{ W/(mK)}$ for P=90%
Durability	NPD *
Dangerous substances	NPD *

NPD - no performance determined

Information

This Technical data sheet is intended to give advice to the best of our knowledge; it replaces any previous product data sheets. The contents of this product data sheet are not legally binding.

Grounds

bauprotec RHS can be applied onto all solid old facades with mineral or synthetic resin high-grade plasters. It can also be used on tightly adhesive emulsion and silicate paints for preparation of grounds for subsequent coating. bauprotec RHS is a suitable bonding mortar and bonding course on critical grounds such as fair-faced formwork concrete, polystyrene, and XPS plates. bauprotec RHS can be used as thin-layer plaster (3 – 5 mm) on level grounds (concrete, smooth brickwork); if the layer thickness is more than 5 mm, two-layer application will be recommended. Rough lime-cement plasters can be floated with bauprotec RHS. Critical grounds should be mesh-reinforced when using bauprotec RHS as filler layer.

The surfaces to be plastered must be level, clean and free from dust as well as any loose and friable matter. Gaps must be closed before application. Emulsion paints must be solid and subject to prior keying. In case of highly absorptive grounds, it is advisable to apply a prime coat with a suitable primer. Concrete is to be checked for presence of any separating agents. XPS plates must be keyed. Sintering layers on all grounds must be removed before plastering.

Application and processing time

bauprotec RHS is suitable for use with all customary plastering machines (such as G 4, G 5, m3, S 48 etc.) and can be conveyed in all customary conveying plants.

When applying manually, bauprotec RHS is to be mixed free from any clumps using the electronic agitator. When using as plastering material, the mortar is applied with a layer thickness of approx. 3-5 mm and then distributed or floated after setting.

When using as a bonding course, the mortar is applied and then combed using e.g. the notched trowel before start of curing.

When adhering insulating materials onto level grounds, the insulating boards are fully inserted into the roughened mortar (notched trowel) and then pressed on. In case of rough surfaces, the insulating boards are bonded by applying the dot-bead method (surrounding bead and 6-8 dots on the surface). Here as well, the insulating boards should be inserted into the ground, pressed on and aligned. Processing time after mixing is approx. 2.0 h until final processing. However, processing time depends on consistency of the plaster, thickness of the applied layer, environmental temperatures, and absorptiveness of the ground.

Please note

- Do not mix in foreign materials
- Newly applied plaster surfaces must be protected sufficiently against direct sunlight, driving rain, wind and cold
- Please observe minimum plaster layer thicknesses
- Do not use at substrate and environmental temperatures below +5 °C and above +25 °C
- When material in the ground changes, install reinforcement
- Please observe the generally recognised codes of practice
- When using as floating plaster for tiles, do not smoothen or float the plaster, but only screed sharply after setting

For further information

please contact:

CASEA GmbH
Pontelstraße 3
99755 Ellrich
Germany
T +49 36332 89-100
F+49 36332 89-202
info@casea-gips.de
casea-gips.de

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REMONDIS Group