

Technical Data Sheet.

bauprotec FLP plus - High yield fiber lime-cement machine plaster

Product description

bauprotec FLP plus is a mineral fiber reinforced lightweight lime-cement undercoat plaster for interior and exterior use with excellent processing properties. bauprotec FLP plus is made from lime hydrate, cement, sand, lightweight aggregates, fibers and additives to improve workability. The optimised setting curve is ideal for plastering small areas. bauprotec FLP plus is formulated especially for machine application, however manual application is also possible.

> Technical data and specifications

Standard	CS II as per DIN EN 998
Yield as per standard	ca. 1350 l/t ca. 90 m ² at 15 mm applied thickness ca. 1,8 m ² per 20 kg bag
Consumption	ca. 11 kg/ m ² per 15 mm applied thickness
Water need	ca. 6 l per 20 kg bag
Compressive strength	> 2,5 N/mm ²
Flexural strength	ca. 1.0 N/mm ²
Modulus of elasticity	ca. 2.5 kN/mm ²
Water absorption	W1 as per DIN EN 998
Water vapour permeability coefficient	$\mu \leq 15$
Adhesion	$\geq 0,08$ N/mm ² FP A,B or C
Thermal conductivity (Tabular value)	$\lambda_{10, dry, mat} \leq 0,18$ W/(mK) at P=50% $\lambda_{10, dry, mat} \leq 0,20$ W/(mK) at P=90%
Bulk density	ca. 850 kg/m ³
Grain size	0-1 mm
Reaction to fire	Building material class A 1, not combustible

> Logistics and safety

Commercial form	bags
Shelf life	given dry and protected storage, bauprotec FLP plus in bags can be stored for 9 months after date of production.
Safety notes	See MSDS

> CE-marking



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CASEA-114 730
EN 998-1: 2010
Lightweight rendering/plastering mortar LW
for internal and external use

Reaction to fire	A1
Compressive strength	CS II
Water absorption	W1
Water vapour permeability coefficient	$\mu \leq 15$
Adhesion	$\geq 0,08 \text{ N/mm}^2$ FP A,B or C
Thermal conductivity (Tabular value)	$\lambda_{10, \text{dry,mat}} \leq 0,18 \text{ W/(mK)}$ at P=50% $\lambda_{10, \text{dry,mat}} \leq 0,20 \text{ W/(mK)}$ at P=90%
Durability	NPD
Dangerous Substances	NPD

*NPD = No Performance Determined

Information

This product 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.

Substrates

bauprotec FLP plus is special advised on lightweight masonry with high thermal isolation but also can be applied on all types of masonry, concrete and on render base coats. The substrate must be stable, clean and free of any other residues, including grease paint or dust. We recommend the use of a mineral key coat (bauprotec RHS) on concrete and smooth / non-absorbent substrates prior to the application of bauprotec FLP plus. Fibreglass mesh has to be embedded into the render or can also be filled in a separate layer of key coat when applied on critical substrates, in case of changes in substrate material and at stress points around openings.

Processing and processing time

bauprotec FLP plus E can be applied using all suitable spray rendering machines (e.g. G 4, G 5, m3, S 48, MP25, SP11 etc). When hand applied, mix for 5 minutes using a suitable electric mixer. In case of great unevenness in the substrate (e.g. rough stone masonry) the recesses require dubbing out. On high absorbent substrates it is essential to apply the render in two passes, pressing the first pass well into the surface using a straight edge and trowel. Then before the first layer dries apply the second pass (wet in wet) extending the render to the desired uniform thickness. When the render is partially set, finish to the desired finish using a steel float, wood float or grid float. The open time, after mixing, is approximately two and a half hours. However, the open time greatly depends on the consistency of the render, the ambient temperature and the absorbency of the substrate. For subsequent finishing renders with a fine grain size ($\leq 2 \text{ mm}$) as well as for strongly burdened facade surfaces (e.g. the weather side of the house), a full-surface fabric filling with bauprotec RHS is recommended on the lightweight fiber plaster. For subsequent finishing renders with a fine grain size ($\leq 2 \text{ mm}$) as well as for heavily used facade surfaces (e.g. the weather side of the house), a full-surface fabric filling with bauprotec RHS is recommended on the lightweight fiber plaster.

Please note

- do not mix in foreign substances
- keep to standard plaster thicknesses
- Do not use at substrate and environmental temperatures below $+5^\circ\text{C}$ or above $+35^\circ\text{C}$
- in the case of changes in the material of the substrate, embed a reinforcement
- the generally recognised rules of practice should be taken into account during application
- apply a mineral adhesive mortar in the case of concrete or other substrates with low permeability
- When using the product as undercoat plaster for tiles or heavy coatings, do not smooth or float; instead merely screed vigorously.

For further information,

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