

Technical Data Sheet.

bauprotec 850 M - Lightweight lime-cement plaster

Product description

bauprotec 850 M is a water repellent, high quality, lightweight mineral lime-cement render suitable for external rendering and internal plastering. bauprotec 850 M consists of hydrated lime, cement, sands, lightweight aggregates and additives to improve workability. bauprotec 850 M is an excellent base coat for fixing tiles onto or to receive decorative finishing coats. bauprotec 850 M is specially designed for machine application although can be hand applied.

> Technical data and specifications

Standard	CS II as per DIN EN 998
Yield as per standard	ca. 850 l/t ca. 55 m ² at 15 mm applied thickness ca. 1.5 m ² per 25 kg bag
Consumption	ca. 18 kg/ m ² per 15 mm applied thickness
Water need	ca. 6,7 l per 25 kg bag
Compressive strength	> 3.0 N/mm ²
Flexural strength	ca. 1.5 N/mm ²
Modulus of elasticity	ca. 2 kN/mm ²
Water absorption	W2 as per DIN EN 998
Water vapour permeability coefficient	$\mu \leq 20$
Adhesion	$\geq 0,08$ N/mm ² FP A,B or C
Thermal conductivity (Tabular value)	$\lambda_{10, dry, mat} \leq 0,39$ W/(mK) at P=50% $\lambda_{10, dry, mat} \leq 0,43$ W/(mK) at P=90%
Bulk density	< 1250 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 850 M in bags of 25 kg can be stored for 9 months after date of production.
Safety notes	See MSDS

> CE-marking



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Lightweight rendering/plastering mortar LW
for internal and external use

Reaction to fire	A1
Compressive strength	CS II
Water absorption	W2
Water vapour permeability coefficient	$\mu \leq 20$
Adhesion	$\geq 0,08 \text{ N/mm}^2$ FP A,B or C
Thermal conductivity (Tabular value)	$\lambda_{-10, \text{dry,mat}} \leq 0,39 \text{ W/(mK)}$ at P=50% $\lambda_{-10, \text{dry,mat}} \leq 0,43 \text{ W/(mK)}$ 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 850 M can be applied on all types of masonry, concrete and on render base coats. For light masonry with lower stone strength, we recommend our lightweight plaster type II bauprotec FLP plus. 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 850 M. Fibreglass mesh must be embedded into the render when applied on critical substrates, in case of changes in substrate material and at stress points around openings.

Processing and processing time

bauprotec 850 M 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 further information,

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Please note

- do not mix in foreign substances
- keep to standard plaster thicknesses
- Do not use at substrate and environmental temperatures below +5°C or above +35°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.

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