

CASEA Bauprotec FLP Plus – Ultra Lightweight Fibre Render

CASEA Bauprotec FLP Plus is a factory produced highly efficient lightweight mineral lime cement render produced to EN 998-1, specially designed for high insulating masonry for interior and exterior use with excellent working properties. Bauprotec FLP Plus is water-repellent and consists of hydrated lime, cement, sand, lightweight aggregates, fibres and additives to improve its workability. Bauprotec FLP Plus is specially formulated for machine application, however manual application is also possible.

- Designed for High Insulating Masonry
- Machine or Hand Application
- High Yield
- Weather Resistant
- CE Marked
- EN 998-1

Field Of Application

An ultra lightweight render for facades and walls constructed out of highly insulating masonry substrates. The product's special composition allows the product to breathe and also permits constant hygrometric exchange between the substrate and the environment.

Substrate

Substrates to be rendered should be examined for contamination, deterioration, surface roughness, suction and strength. Dust and contamination such as residues of concrete release agents, gypsum plaster, paint, other coatings, organic growth, salts and efflorescence should be removed prior to rendering. Salts and efflorescence should be removed by dry brushing (non-metallic bristles). Other special precautions may need to be taken if this removal is not achievable. The line and flatness of the substrate should also be assessed to determine if the render can be applied to a uniform thickness or if dubbing out is required. The substrate should be reasonably dry and free of frost, with a temperature of +5 °C or above at the time of rendering. It is important for the wall not to be too wet at the time of rendering. Walls that have recently been exposed to heavy rain should be allowed to dry out sufficiently before rendering is attempted.

Preparation

Bauprotec FLP Plus should only be applied to mature stable surfaces. A minimum of one month should be allowed following completion of the wall construction before application of the render commences. In slow drying situations, a longer interval should be allowed. All substrates must be clean, sound and dust free as the render relies on a combination of suction and

surface texture to achieve bond. It is essential that all steps are taken to ensure that a satisfactory bond is achieved between the render and the substrate. All recommendations set out in EN 13914-1, EN 13914-2 and S.R. 325 should be followed.

Instructions

Bauprotec FLP Plus can be used with all standard plaster machines (such as G 4, G 5, m3, S 48 etc.) and transported using all commonly used delivery systems. The use of a lightweight plaster mixing spiral is recommended. For manual application, Bauprotec FLP Plus is mixed using an electric mixer to form a lump-free mass and mixed thoroughly for min. five minutes. Do not mix with other materials. If the substrate is highly uneven (e.g. fractures), the recesses must be filled in beforehand. When plastering, the plaster is applied in two coats, wet-on-wet. Therefore, it is recommended to pre-spray an entire side of the building in a thin coat of plaster and then to apply the required plaster thickness with the second coat. Once it has been applied to the desired thickness, the plaster is levelled. Once hardened, the projecting ridges are removed; complete scraping with a grid float is not recommended. The open time following initial mixing is approximately 2.5 hours. However, the open time depends on the consistency of the plaster, the ambient temperature and the absorbency of the substrate. Suitable measures must be taken to protect the freshly applied plaster against external influences (sun, strong winds, rain, frost etc.). When applying a mineral or synthetic finishing coat with a fine grain size (< 2 mm) it is recommended to apply a 3mm fibreglass reinforced coat of Bauprotec RHS onto the hardened Bauprotec FLP Plus base coat. This procedure is also recommended with severely impacted facades (e.g. the weathered side of the building).

Application

During application the temperature must be between 5-35°C. Bead out the application area with Stainless Steel, Aluminium or UPVC beading, which also serves as a reference for the thickness applied. Beads need to be carefully bedded in Bauprotec SLP Plus or RHS. Always maintain a wet edge, when working in sections. In sunny weather, work should commence on the shady side of the building and be continued, following the sun to prevent the rendering drying out too rapidly.

Storage

9 months under dry, protected conditions.

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Practical Advice

On concrete and smooth / non-absorbent substrates, we recommend using Bauprotec RHS as a key coat for substrate preparation. On critical substrates, in case of changes of substrate material and at stress points around openings, fibreglass mesh must be embedded in the render. We recommend to keep render thicknesses as set out in EN 13914. In severe conditions of exposure, where the rendering is subject to heavy rain, renders which have a capillary water absorption Class W1 should be finished with a suitable Class W2 finish coat, such as Mineral Finish Coat K, Bauprotec RHS and/ or paint treatment to EN 1062/BS 6150. In moderate or passive conditions of exposure, renders which have a capillary water absorption Class W1 or W2 can be used.

Disposal Considerations

Waste treatment methods: Recommendation: Must not be disposed together with household garbage. Do not allow product to reach sewage system. European waste catalogue 17 08 02. Uncleaned packaging: Recommendation: Disposal must be made according to official regulations. Recommended cleansing agents. Water, if necessary together with cleansing agents.

Safety

Classification according to Regulation (EC) No 1272/2008. The product is classified and labelled according to the CLP regulation. GHS05 corrosion. Eye Dam. 1 H318 Causes serious eye damage. GHS07 Skin Irrit. 2 H315 Causes skin irritation. **Labelling according to Regulation (EC) No 1272/2008.** The product is classified and labelled according to the CLP regulation. **Hazard pictograms:** GHS05. **Signal word:** Danger. Hazard-

determining components of labelling: calcium dihydroxide, Cement, portland, chemicals. All standard precautions for the handling of construction materials/chemicals must be taken. See CASEA Health and Safety Data Sheet for further detailed information.

Hazard Statements

H315 Causes skin irritation.

H318 Causes serious eye damage.

Precautionary Statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read carefully and follow all instructions.

P264 Wash thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor/.


P321 Specific treatment (see CASEA Health and Safety Data Sheet).

P332+P313 If skin irritation occurs: Get medical advice/attention.

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Technical Information

Designation	CS II as per DIN EN 998
Yield as per standard	Approx. 1350 l/t Approx. 90 m ² at 15 mm applied thickness Approx. 1.8 m ² per 20 kg bag
Consumption	Approx. 11 kg/ m ² per 15 mm applied thickness
Water Demand	Approx. 6 l per 20kg bag
Compressive Strength	> 2.5 N/mm ²
Flexural Strength	Approx. 1.0 N/mm ²
Modulus Of Elasticity	Approx. 2.5 kN/mm ²
Capillary Water Absorption	W1 as per DIN EN 998
Water Vapour Permeability Coefficient	$\mu \leq 15$
Adhesion	≥ 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	Approx. 850 kg/m ³
Yield	11 kg/m ² @ 15mm
Grain Size	0-1mm
Reaction to Fire	Building material class A1, not combustible
Packaging	20kg bags

	CASEA GmbH Pontelstraße 3 99755 Ellrich Germany
10 CASEA-114 735 EN 998-1 Lightweight rendering/plastering mortar LW Plastering of ceilings and walls inside and	
Reaction to fire	A1
Compressive strength	CS II
Water absorption	W1
Water vapour permeability coefficient	$\mu \leq 15$
Adhesion	≥ 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%
Durability	*NPD
Dangerous Substances	*NPD

*NPD: No Performance Determined


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