CASEA Bauprotec 900 E – Lightweight Lime Cement Render

CASEA Bauprotec 900 E is a factory produced Lightweight Lime Cement Render specially designed for hand and machine application produced to EN 998-1: 2003. It is manufactured from a controlled blend of selected lime hydrate, cement, sand, lightweight aggregates and additives to give a high quality weather resistant rendering product which is suitable for use in external rendering and internal plastering. The unique properties of this render makes it suitable for application on low, medium and high density substrates.

- Lightweight – Low Tension
- Machine or Hand Application
- High Yield
- Weather Resistant
- CE Marked
- EN 998-1:2003

Field Of Application

A lightweight render for facades and walls constructed out of low, medium and high density blockwork and any other masonry substrate. The product's special composition allows the product to breathe and also permits constant hygrometric exchange between the substrate and the environment. It is an excellent substrate for fixing tiles.

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 900 E 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. The recommendations set out in EN 13914- 1:2005 and BS 5262:1991 should be followed. It is essential that all steps are taken to ensure that a satisfactory bond is achieved between the render and the substrate.

Instructions

Bauprotec 900 E can be applied using all suitable spray rendering machines (e.g. G4, G 5, m3, S 48, MP25, SP11) and can be transported on all pneumatic conveyor systems. When hand applied, mix for 5 minutes using a suitable electric mixer. Do not mix in any other products. 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.

Application

During application the temperature must be between 5°C-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 900 E. 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.

Practical Advice

We recommend the use of a mineral key coat (Bauprotec RHS) on concrete and smooth / non-absorbent substrates prior to the application of Bauprotec 900 E. 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.

Storage

9 months under dry conditions.

Disposal Considerations

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

Safety

Caution. This product contains cement, which becomes alkaline when wet and may cause skin irritation. Use goggles, gloves and protecting cream. Avoid prolonged contact with skin. Avoid inhaling the dust. Wash affected area with warm water and soap. Wash eyes thoroughly and consult a physician. Do not ingest. See CASEA Health and Safety Data Sheet for further information.

Hazard Statements

H315 Causes skin irritation.

H318 Causes serious eye damage.

H335 May cause respiratory irritation.

Precautionary Statements

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

P102 Keep out of reach of children.

P103 Read label before use.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face 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 or doctor/physician.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

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

Technical Information

Dry Bulk Density	approx. 1000 kg/m³
Compressive Strength	> 3.0 N/mm² CS II
Flexural Strength	approx. 1.2 N/mm²
Modulus of elasticity	ca. 2.5 kN/mm²
Capillary Water Absorption	W 2 as per DIN EN 998
Adhesion	≥ 0.08 N/mm² FP A,B or C
Water Vapour Permeability	μ ≤ 20
Thermal Conductivity (Tabular Value)	λ10, dry,mat ≤ 0.25 W/(mK) at P=50% λ10, dry,mat ≤ 0.27 W/(mK) at P=90%
Yield	1.1 kg/mm/m²
Water Demand	7 l per 30kg bag

CE

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EN 998-1: 2010

Lightweight rendering/plastering mortar LW

Plastering of ceilings and walls inside and outside of buildings

Reaction to fire	**A1**
Durability	**NPD**
Dangerous Substances	**NPD**

NPD Properties not determined as they are not relevant (No Performance Determined)

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