

Technical Data Sheet.

bauprocalc 830 - Machine applied lime plaster

Product description

bauprocalc 830 is a mineral lime undercoat plaster for interior and exterior applications. bauprocalc 830 is a factory produced hydraulic hardening render/plaster based on lime. bauprocalc 830 is especially recommended as interior render with special advantages for the living climate. It is an excellent substrate for tile adhesives. bauprocalc 830 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. 830 l/t ca. 55 m ² at 15 mm applied thickness ca. 2 m ² per 30 kg bag
Consumption	ca. 15 kg/m ² per 15 mm applied thickness
Water need	ca. 7,5 l per 30 kg bag
Compressive strength	> 2.0 N/mm ²
Flexural strength	> 1.0 N/mm ²
Modulus of elasticity	ca. 6 kN/mm ²
Water absorption	W0 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)	$\lambda_{10, dry, mat} \leq 0,82$ W/(mK) at P=50% $\lambda_{10, dry, mat} \leq 0,89$ W/(mK) at P=90%
Bulk density	ca. 1300 kg/m ³
Grain size	0-1 mm
Reaction to fire	Building material class A 1, not combustible

> Logistics and safety notes

Commercial form	bags and silo
Shelf life	bauprocalc 830 can be stored in bags in dry and protected conditions for 9 months from the date of production.
Safety notes	See MSDS

> CE-marking



CASEA GmbH
Pontelstraße 3
99755 Ellrich
Germany

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CASEA-114 760
EN 998-1: 2010
General purpose rendering/plastering mortar

Reaction to fire	A1
Compressive strength	CS II
Water absorption	W0
Water vapour permeability coefficient	$\mu \leq 20$
Adhesion	$\geq 0,08 \text{ N/mm}^2$ FP A,B or C
Thermal conductivity (Tabular value)	$\lambda_{10, \text{dry,mat}} \leq 0,82 \text{ W/(mK)}$ at P=50% $\lambda_{10, \text{dry,mat}} \leq 0,89 \text{ W/(mK)}$ at P=90%
Durability	NPD*
Dangerous Substances	NPD*

*NPD = No Performance Determined

Information

This Technical Data sheet is to provide advice to the best of our knowledge and replaces all previous data sheets.

However, its content has no legally binding effect.

Substrates

bauprocalc 830 can be applied to standard masonry of all types, to concrete and to plaster bases. For lightweight masonry, however, we recommend using lightweight lime-cement plasters. The substrate must be dry, clean, firm and free from release agents. On concrete and smooth / non-absorbent surfaces, we recommend using a mineral adhesive mortar. On critical substrates, if there are material changes in the substrate and if there are notches or recesses in the surface, surface armour must be embedded in the undercoat plaster, or better still, spread onto the undercoat plaster.

Processing and processing time

bauprocalc 830 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.

For manual processing bauprocalc 830 is blended with an electric mixer and mixed thoroughly for about 5 minutes.

If the substrate is highly uneven (e.g. stone walls), the recesses must be filled in before. On highly absorbent substrates, the plaster is applied in two coats, wet-on-wet. Once it has been applied in a suitable thickness, the plaster is levelled, and then, after it has begun to harden, levelled again, and finally scraped with the grid-type plaster plane. If the surface is floated, a two-coat application is recommended to avoid cracks and joint collapse. The workability time following initial mixing is approximately 2.5 hours. However, the workability time depends on the consistency of the plaster, the ambient temperature and the absorbency of the substrate.

For further information,

please contact:

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

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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