

TECHNICAL DATA SHEET

BOND PLASTER

DESCRIPTION

BOND PLASTER is a resin-based, fiber-reinforced, fast-setting repair mortar of high mechanical strength. It is non-shrinkable, suitable for application even in layers of 2-50 mm. Its special composition provides thixotropic behavior so that no molding is required on the vertical surfaces. Certified according to EN 998-1 and classified as type CS IV, W2.

APPLICATION AREAS

Ideal for the restoration of concrete surfaces as well as the cross-sections of concrete-based structural elements that have failures (pores, small imperfections in corners and edges) or have suffered mechanical damage. It is suitable for the repair and filling of both vertical and horizontal surfaces such as floors, building facades, corners, beams with damage resulting from poor workmanship, impacts or oxidation of reinforcement as well as filling columns and walls by injection.

APPLICATION INSTRUCTIONS

Surface preparation

The cementitious surfaces should be clean, structurally sound and free from dust, dirt, oil, grease or other materials that reduce adhesion. The substrate should be prepared by suitable mechanical means such as water blasting, sandblasting and the aggregates of the concrete should be visible.

The steel should be free from rust, concrete residues, oils, greases, dusts and in general anything that can reduce adhesion or contribute to the oxidation of the reinforcement. In case there is oxidation on the surface, carefully clean with mechanical means until the rust is completely removed. Protect the cleaned reinforcement from oils, dusts and other contaminants before applying the mortar

Application

Mix the **BOND PLASTER** plaster with an electric hand mixer at low speed (~300 *r.p.m.*) or with another mechanical mixer. Pour the appropriate amount of water into the mixing container and while slowly mixing it, add the powder to the water and mix well for at least 3 minutes. Add additional water during mixing until a homogeneous, lump-free mixture is formed. 25 kg of dry mortar require 6.5-7.0lt of water, depending on the desired workability.

Before applying the mortar, the surface should be wetted to a saturation point and the water trapped in cavities must be removed with the help of a sponge. First apply a thin layer in such a way that cracks, holes and cavities are filled. Then apply the **BOND PLASTER**, and compact it well. If additional layers are desired, apply them once the previous one has begun to dry to the point where the mortar does not stick to the hand.

CONSUMPTION

Approximately 15 kg/m².

CLEANING

Clean the tools immediately after use with water.

STORAGE

12 months from the date of production in unopened package kept in a dry place

SAFETY

Read carefully the label of the product before use. Detailed instructions regarding hazards and safety are provided in the Safety Data Sheet, which is available upon request.

PACKAGING

paper bag of 25kg/1500Kg pallet.

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Technical Data (Measurement conditions 23°C and 50% R.H.):

Form	cementitious powder	Coherence	177 mm
Color	white	Compressive strength	15,1 N/mm ²
Water demand	7lt/25kg	Adhesion strength (28 days)	1,2 N/mm ²
Application temperature	from 5 °C to 35 °C	Capillary water absorption	≤ 0,1 kg/m ² min ^{0,5}
Maximum thickness per layer	2cm, spatially up to 4cm	Water vapor permeability coefficient (μ)	6
Maximum application thickness	4-5 cm	Thermal conductivity (λ _{10,dry})	0,43 W/(m.K)
Consumption	15 kg /m ²	Reaction to fire	Class A1
Specific gravity of wet mortar	1960 Kg/m ³	Pot life	2h



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NOTICE

The technical information and instructions provided in this datasheet referring to the application and end use of PROLAT products are based on the company's expertise and experience with the products to date. They are provided in good faith under the condition that the products are stored, used, and applied in accordance with PROLAT's instructions. However, given our inability to directly oversee conditions at construction sites or during product application, the company cannot guarantee the suitability of its products for specific purposes, nor does it assume any legal responsibility based on the information provided in this brochure, whether written, oral, or otherwise communicated. Users are advised to conduct a small test to assess the suitability of the products for their intended application and purpose of use. The company reserves the right to modify the properties of its products without prior notice.

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EN 998-1:2016 BOND PLASTER General purpose rendering mortar (GP) for external and internal use Reaction to fire: Class A1 Adhesion: $\geq 1.2 \text{ N/mm}^2$ – FP:A Water absorption: W2 Water vapor diffusion coeff.: $\mu:6$ Thermal conductivity: ($\lambda_{10, \text{dry}}$) 0.43 W/mK (tab. value) Durability (against freeze/thaw): NPD Dangerous substances: See SDS