ADX.0006

BOND HG

Adhesive multifunctional binding latex, with superpozzolanic reactivity

Customs Code

3816 0000

Packaging

- Pail 8 kg

Application

- To be added to other components
- Brush
- Paint roller
- Scrubbing brush

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Family	Type
Admix	**Polymeric latexes**
Product Lines	**Functional Cathegories**
• **Opus**	• **Improvement of mechanical and/or rheological performance of newly manufactured mortars, plasters and concretes** • **Construction of bonding bridges between the existing support and the new slope** • **Construction of spritz-beton**
Components	**Appearance**
Single-component	**Liquid**

General **description**

Adhesive multifunctional binding latex, in clear coloured rosy viscous solution, based on acrylic polymers in aqueous dispersion, coalescence promoters, de-aerating agents and special fillers with superpozzolanic reactivity. BOND HG is a reactive type multifunctional, flexibilising and waterproofing compound, for preparing adhesive grout, waterproofing coatings, and to improve mortar, plaster, grout and concrete adhesion, adherence, deformability, waterproofness and performance.

General **features**

BOND HG is a multipurpose, multifunctional, reactive product; its addition to plaster, mortars and conglomerates in general, both based on cement and bonded with lime, provides a complex and efficient physical/chemical action. The polymers and the reactive fillers increase stickiness, adhesion, watertightness, and deformation capacity, and reduce the alkali content of free products from the reaction of cement hydration for an amount of about 1000 mg per kg of BOND HG introduced into the mixture. The superpozzolanic reactivity, activated by the distinctive features of the filler, causes significant increases in chemical resistance, weatherability, stability and overall durability.

The high pozzolanic reactivity (metakaolin) BOND HG fillers react with the free lime [$Ca(OH)_2$] produced by the hydration reaction of portland cement. The free lime is thus converted into more stable calcium aluminates and calcium silicate. The reaction between [$Ca(OH)_2$] and metakaolin is endothermic, it thus develops less heat in the system, allowing a more balanced hardening of hydraulic binders (cement or lime).

Fields of **application**

Preparation of adhesive, deformable, high-protective performance and waterproofing mortars and plasters for civil, industrial and hydraulic engineering, in urban, marine, and mountain environments; repairs and restorations of floorings, road circuits and airport runways, non-structural construction joints, sealing, restorations, and reconstructions. Particularly suitable for providing adequate cohesion and deformability of shotcrete lining of floor heating systems.

Available **colours**

- Pink

Basic **features**

Density: *1.12 kg/dm³*

Nonflammable

Shelf-life: *12 months*

Technical specifications

	Non-toxic material
Reactivity with the free alkali (per kg di prodotto):	950-1150 mg
Thinness (Blaine):	26000 cm²/g

Tools **cleansing**

- Water

Applicable on

- Plasters
- Cement-based or lime-based mortars

Instructions for use

Remix BOND HG thoroughly in the bucket, and dilute it with water as required. Add the prepared solution to the cement (or lime) and aggregates mixture, in the most suitable dosages for this application.

Storage and preservation

Protect from freezing. Store the product in its original packing, in a fresh and dry environment, avoiding frost and direct sunlight. Inadequate storage of the product may result in a loss of rheological performance. Store the product at a temperature between +5°C and +35°C.

Indicative dosages

	Cement	Water	BOND HG	Sand	Yield
Construction-grade grout	50	16	16	-	50
Bonding roughcast	50	15	8	50	57
Plasters	50	20	8	150	105
Thin coatings	50	20	8	100	85
Floorings	50	20	8	150	105

The indicative dosages refer to the unit of measurement represented by two 25 kg bags of binder (cement or lime); the right column shows the indicative yield in litres of fresh mixture. By way of example, we just have to multiply by 2 times the dosages of the plaster column, to get the doses for a 200 litre concrete mixer.

Warnings, Precautions and **Ecology**

Technical and performance data outlined in this document are the result of laboratory testing conducted in a conditioned environment, as such they can result as considerably changed from operating and application conditions. The need follows to carry out preliminary tests in actual use conditions.

The user is required to check the product's most recent Material Safety Data Sheet, reporting physical-chemical and toxicological data, risk phrases and other useful information on how to safely transport, use and dispose of the product and its packaging. It is also reminded that the product and its packaging must not be dispersed in the environment for any reason.

It is always essential to carry out preliminary tests for an accurate definition of the mixtures to use, and to check the suitability of the product on the basis of the specific requirements.

BOND HG is produced/distributed by

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