



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

Family
Admix

Product Lines
• Opus

Components
Single-component

Type
Polymeric latexes

Functional Categories
• **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**

Appearance
Liquid

General description

Adhesive multifunctional binding latex, in clear coloured rosy viscous solution, based on a special elastomer in aqueous dispersion, coalescence promoters, de-aerating agents and 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 $[\text{Ca}(\text{OH})_2]$ 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 $[\text{Ca}(\text{OH})_2]$ and metakaolin is endothermic, it thus develops less heat in the system, allowing a more balanced hardening of hydraulic binders (cement or lime).

Dosage

Refer to the table shown in the product datasheet.

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 rural roads. Non-structural construction joints, sealing, restorations, and reconstructions. Particularly suitable for providing adequate cohesion and deformability of shotcrete lining of floor heating systems. Pure, or diluted in water up to a dilution ratio of 1: 2, it is an excellent adhesion primer for porous, weak or chalking substrates, to be applied immediately before the covering layers (mortars, grouts and concretes).


Basic features

 Density:
1.12 kg/dm³

 Nonflammable

 Shelf-life:
12 months

 Solvent-free

 Available colours
Pink

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Technical specifications

Active substance: > 35 %

Chloride content: < 0.005 %

Content of raw materials with pozzolanic activity: > 22 %

Reactivity with the free alkali: 950-1150 mg/kg

Specific surface of raw materials with pozzolanic activity: 800 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.

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.

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
Screeds	50	25	4	150	105
Concrete	50	25	2,5 - 3	250	150
As primer for absorbent materials	---	1,0	1,0	---	1,9

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.



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Warnings, Precautions and Ecology

The general information, along with any instructions and recommendations for use of this product, including in this data sheet and eventually provided verbally or in writing, correspond to the present state of our scientific and practical knowledge.

Any technical and performance data reported is the result of laboratory tests conducted in a controlled environment and thus may be subject to modification in relation to the actual conditions of implementation.

Azichem Srl does not assume any liability arising from inadequate characteristics related to improper use of the product or connected to defects arising from factors or elements unrelated to the quality of the product, including improper storage.

Those wishing to utilise the product are required to determine prior to use whether or not the same is suitable for the intended use, assuming all consequent responsibility.

The technical and characteristic details contained in this data sheet shall be updated periodically. For consultation in real time, please visit the website: www.azichem.com. The date of revision is indicated in the space to the side. The current edition cancels out and replaces any previous version.

Please note that the user is required to read the latest Safety Data Sheet for this product, containing chemical-physical and toxicological data, risk phrases and other information regarding the safe transport, use and disposal of the product and its packaging. For consultation, please visit: www.azichem.com.

It is forbidden to dispose of the product and/or packaging in the environment.

BOND HG is produced/distributed by



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