



MAXBOND[®]-S

ACRYLIC-BASED BONDING AGENT WITH LONG OPEN TIME FOR CONCRETE AND MORTAR

DESCRIPTION

MAXBOND[®]-S is a one-component product liquid based on acrylic resins that has been specially formulated to improve the bonding between different layers of concrete and mortar, providing a higher adhesion on smooth and porous-free surfaces or on the contrary, very absorbent substrates.

APPLICATIONS

- Bonding agent for cement-based mortars over concrete floors or mortars, suitable for interior and/or exterior applications, and vertical and/or horizontal surfaces.
- Building up, levelling and/or regulation of pavements and existing concrete surfaces by placing a new concrete layer, cement-based mortar with low thickness, compressive layer or gypsum layer.
- Priming and bonding treatment before applying cement-based renders and plasters over substrates, walls and ceilings with high porosity and absorption capacity at interior or exterior applications; cellular concrete, brick masonry, etc.
- Application of cement-based layers over substrates with very low porosity such as waterproofed concrete, polished stone, marble, glassed tiles, metal, epoxy and polyurethane coatings perfectly bonded to the substrate, etc.
- Bonding agent for masonry with carried put with natural stone, tiles and bricks over concrete elements such as pillars, walls, etc.

ADVANTAGES

- Long open time, maintaining the tack for more than 48-72 hours after its application.
- High adhesion on very absorbent substrates, avoiding fast drying-time on concrete, mortar and gypsum.
- High adhesion over non-porous or polishing substrates, saving additional costs of surface preparation treatments.
- One-component product. Ready to use.
- Non-degradable. Not affected by permanent contact with water or alkalinity from cement.
- Suitable to be applied on both damp and dry surfaces.
- Water-based product: environment friendly. Non-flammable.

APPLICATION INSTRUCTIONS

Surface preparation

Substrate must be sound and structurally resistant, remove all loose and damaged concrete. Surface should be clean, free of dust, greases, slurry, old coatings and other foreign particles which may affect the adhesion.

Recommended cleaning methods are high pressure water cleaning and sandblasting, sand blasting or other suitable mechanical method in order to provide surface with a slight roughness, i.e. open textured surface.

Application

MAXBOND[®]-S is a product ready to use. Previous to application, stir the content of the packaging in order to get a homogeneous appearance and colour uniformity.

Apply on the surface a thin and continuous coat by brush, roller or air-sprayed machine, avoiding leave any puddle by an excess of product. Recommended coverage is from 0,15 to 0,20 kg/m² per coat, depending on porosity and texture of the surface, and application method used. If surface is too porous, apply two or three successive coats depending on surface absorption, with a waiting time of 10-15 minutes at 20 °C between coats.

Allow **MAXBOND[®]-S** dry to touch before applying new layer of concrete, mortar or plaster. Waiting time depends on application temperature, ventilation conditions and characteristic substrate, i.e. porosity, roughness, etc. Make previous trials on job-site to determine exactly. Thus, the drying-time before placing the concrete or mortar is about 60 minutes at 20°C.

New concrete, mortar, gypsum plaster, etc must be placed while **MAXBOND[®]-S** is still tacky in the open time interval. With lower temperatures, low ventilation conditions or non-porous surfaces, open time is longer. Effectiveness of the bonding agent decreases progressively, so maximum open time is 48-72 hours.

Application conditions

Do not apply if temperature is below 5 °C or if expected to drop below 5 °C within 24 hours. Do not apply on frozen substrates or if rain is expected within 24 h after the application.

For applications at hot temperatures and windy conditions, i.e. summer time, surface treated must be protected against direct sunlight exposure.

Curing

Open time at 20 °C is about 48-72 hours. This figure may vary depending on application and curing conditions, i.e. temperature, R.H., wind speed, etc., and substrate characteristics.

Cleaning

All tools and equipments must be cleaned with water immediately after application. Once it cures, it can only be removed by mechanical means.

CONSUMPTION

The estimated consumption for **MAXBOND® -S** varies from 0,15 kg/m² to 0,20 kg/m² per coat. For porous substrates two or three coats with the same consumption rate can be applied depending on surface absorption.

These figures may vary depending on the roughness, surface conditions and the application method. A preliminary test on-site will determine the coverage exactly.

IMPORTANT INDICATIONS

- Do not apply over dead plaster.
- Not suitable as primer for epoxy or polyurethane-based coatings.
- For other uses not specified in this Technical Bulletin or further information, consult our Technical Department.

PACKAGING

MAXBOND® -S is supplied in 25 kg jerry cans.

STORAGE

Twelve months in its original unopened packaging, in a covered place protected from frost, with temperatures above 5 °C. In case of freezing it must be heated slowly, while being regularly stirred, until achieve its usual liquid appearance without lumps. Avoid overheating.

SAFETY AND HEALTH

MAXBOND® -S is not a toxic product but skin and eye contact must be avoided. Use gloves and safety goggles. In case of eye contact thoroughly clean with clean water, but do not rub. In case of skin contact, wash affected areas with water and soap. If irritation persists, seek medical attention.

Safety Data Sheet of **MAXBOND® -S** is available by request. It is non-corrosive and non-flammable product. Disposal of the product and its empty packaging must be made by the final user and according to official regulations.

TECHNICAL DATA

Characteristics of the product	
Appearance and colour	Milky liquid
Density (g/cm ³)	1,02 ± 0,1
pH	8 ± 1
Conditions for application and curing	
Temperature for application (°C)	>5
Drying time to touch at 20 °C, (min)	45 - 60
Open time at 20 °C, (hours)	48 - 72
Consumption	
Consumption* per coat (kg/m ²)	0,15 – 0,20

(*)These figures may vary depending on the roughness and surface conditions. A preliminary test on-site will determine the coverage exactly.

GUARANTEE

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