



PLASTERBOND™

SINGLE COMPONENT BONDING AGENT FOR PLASTER, CONCRETE, AND SCREED

USES

PLASTERBOND™ is a unique aqueous polymer ideally suited for enhancing interfacial bond between new plaster and other old substrate.

Plaster (Internal and external) is being used widely on horizontal and vertical surfaces (e.g. Concrete, plaster, wood, steel etc.) Bond strength will vary depending on the type of substrate.

The concrete structure once hardened, is difficult to hack, for achieving proper mechanical bonding. Some time it is even difficult to control and check quality of hacked surface because of large surface area.

Hacking of concrete can create additional micro cracks leading to effects on durability of structure.

ADVANTAGES

PLASTERBOND™ gives the following properties:

- Excellent adhesion in dry, damp or permanently wet conditions to both concrete and steel because of both chemical and mechanical bonding.
- Fills up micro-cracks of the substrate.
- High abrasion resistance.
- Low water permeability due to continued pozzolanic reactions with interfacial surfaces.
- Enhanced resistance to freeze - thaw cycles, alkalis and dilute acids.
- Water based polymeric solution hence very low VOC.
- Anti-carbonation properties
- Non corrosive to steel with high inherent alkalinity.
- Spray applied mortar has low rebound losses.

PRODUCT DESCRIPTION

PLASTERBOND™ is based on advanced polymer chemistry with an advanced co-polymer dispersion which, when applied to the substrate produces excellent



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bonding interface. It also seals porous and absorbent substrates. Material can also be used with cement to prepare bonding slurry.

The enhanced properties ensure high adhesion, low shrinkage, excellent resistance to freeze - thaw attack and high flexural and compressive strengths of interface.

APPLICATION DATA

Surface Preparation

Mechanically remove all damaged concrete back to a sound core. Whenever possible, the full circumference of the steel reinforcement should be exposed to at least 25mm behind the bars and 50mm beyond the point at which corrosion is visible. On cutting back, feather edges must be avoided. The perimeter of the repair area should be stepped to a depth of 10 mm by means of saw or disc cutting or preferably using a power chisel. The areas to be treated with **PLASTERBOND™** must be free from all unsound materials i.e. dust, oil, grease, corruptions by-products and organic growth. Shot blasting or grit water jetting is recommended, but for some smaller areas needs gunning or bush hammering is effective. The prepared substrate should be thoroughly soaked with clean water until uniformly saturated without any standing water.

Priming / Bonding

Apply single coat of **PLASTERBOND™** by spray or paint brush. When the surface is slightly wet, give a chat (dash-coat) of cement mortar (when the surface becomes tacky). For surface requiring high bonding, prepare slurry of Cement and **PLASTERBOND™** (one to one ration by volume) and apply the same by brush. Adding 3 to 5 kg of **PLASTERBOND™** for 50 kg bag cement in the dash-coat will give excellent bonding properties.

Plaster the surface or place the screed as per requirement after allowing the coat to set (in approx. 1 hr to 1 day Interval). The subsequent rendering, screeds, etc. should be applied on wet basis.

For gypsum based plaster application, applying single coat of **PLASTERBOND™** will be sufficient for bonding.

CURING

Normal concreting procedures should be strictly adhered to. It is important that the surface of the mortar or screed coating is protected from strong



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sunlight and drying winds with polythene sheets, damp hessian or similar. Allow a minimum of 72 hours curing of the material and ensure the moisture content of the surface is less than 20%.

CLEANING

All tools should be cleaned with water immediately after use.

SHELF LIFE

6 months in frost free conditions with unopened containers at 20 °C.

PACKING AND COVERAGE

Pack size: 5, 20, 50, and 100 Kg

Coverage: 100 ft²/kg

WARRANTY

Multichem warrants PLASTERBOND™ to be free from manufacturing defects as defined in this warranty. Manufacturing defects are considered to be those defects that occur due to the quality of the ingredients or from the manufacturing process itself. This warranty does not include labor costs and other costs or expenses associated with the addition of PLASTERBOND™.

Because the Multichem does not perform the actual installation, it cannot be held responsible for the results of the application. Multichem specifically disclaims problems that occur due to weather conditions, structural movement, structural design flaws and application techniques.

This warranty is in lieu of all other warranties expressed or implied including the warranty of merchantability and fitness of purpose and of all other obligations or liabilities on Multichem part. Multichem neither assumes nor authorizes any person to assume for Multichem any liability in connection with the sale and installation of PLASTERBOND™.

Because of constant improvement of manufacturing techniques and formulations, Company reserves rights to change this datasheet and its contents without prior notice.



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