

DESCRIPTION

PENETRON® ACRYLIC BONDCRETE™ is a 100% acrylic latex used as a high strength admixture and bonding agent for Portland cement mortar and concrete. It provides excellent resistance to impact, abrasion, moisture and attack by acids or other water soluble chemicals. As a polymer modifier, it provides improved cement hydration and bonding properties to enable effective application, as thin as feather edge. When used as a bonding slurry, the bond strength is retained, even in damp exterior conditions. It can be used for bonding fresh mortar or concrete to existing concrete or other sound substrates, such as brick or block, in non-structural applications.

RECOMMENDED FOR

- ▶ Concrete
- ▶ Stucco
- ▶ Terrazzo
- ▶ Repair mortars
- ▶ Masonry
- ▶ Portland cement – sand mixes

ADVANTAGES

- ▶ Improved flexural strength minimizes cracks in concrete, plaster and stucco
- ▶ Improves bond and impact strength
- ▶ Improved resistance to freeze/thaw cycling and moisture migration

DIRECTIONS FOR USE

Surface Preparation: Remove all loose, unsound or contaminated concrete from area to be repaired. Roughen concrete bonding surface by mechanical means (sand or shot blast or chipping hammer). Pre-wet concrete for up to 4 hours, then remove all standing water and allow surface to dry, before applying PENETRON® ACRYLIC BONDCRETE™ slurry, mortar or concrete.

Mixing: Mix thoroughly immediately prior to use.

Application:

For Use as an Admixture: As an admixture, PENETRON® ACRYLIC BONDCRETE™ can be used for horizontal, vertical and overhead patching applications. PENETRON® ACRYLIC BONDCRETE™ can be used to replace all or part of the mixing water in Portland cement mortar or concrete. Use 2 gallons (7.6 Lt) minimum of PENETRON® ACRYLIC BONDCRETE™ per bag (110 lb/50 kg) of Portland cement used. Use the appropriate aggregates and sand mixes. Add additional PENETRON® ACRYLIC BONDCRETE™ or water to achieve the desired consistency.

NOTE: Latex modified mortars and concretes must have proper mix designs, in order to perform properly.

For Use as a Bonding Agent:

Slurry Bond Coat: For optimum bond strength, mix PENETRON® ACRYLIC BONDCRETE™ undiluted with Portland cement. A ratio of 1 part by volume of PENETRON® ACRYLIC BONDCRETE™ to 1 ½ parts by volume of Portland cement is suggested, to provide a creamy thick bonding slurry. The prepared bonding slurry should be scrubbed with a broom into the prepared concrete substrate, just ahead of the repair material replacement. If the bonding slurry dries before the concrete or mortar is placed, it must be removed by wire brushing or water blasting and then recoated with fresh bonding slurry, after the residual water is removed.

Neat Bond Coat: Apply PENETRON® ACRYLIC BONDCRETE™ to properly prepared concrete substrate, by roller, brush or sprayer, at a coverage rate of 200-250 ft²/gal (5-6 m²/Lt), using more or less, depending on the porosity. Wait at least 40 minutes, until the bonding film is clear and dry to the touch, before applying mortar or concrete.

NOTE: Film must be dry to touch (not tacky), before pouring concrete. A neat, bonding coat of PENETRON® ACRYLIC BONDCRETE™ will retain its ability to bond effectively for up to 2 weeks, if it is kept dry and clean.

ACRYLIC BONDING AGENT AND ADDITIVE

Curing: PENETRON® ACRYLIC BONDCRETE™ modified mortars or concretes and bonded applications generally require damp curing, followed by drying, in order to achieve full physical properties (no capillary cracking, no freezing or abrasion, etc).

SPECIAL CONSIDERATIONS

Do not use as a neat bonding agent for any vertical, overhead or structural application or with rapid setting cementitious products, for optimum results. For these type of applications use the slurry bond coat.

The minimum recommended application temperature is 50 °F (10 °C). Temperature must remain at or above 50 °F (10 °C) for at least 8 hours and preferably 24 hours after application of PENETRON® ACRYLIC BONDCRETE™.

While stored, the product is stable to five freeze/thaw cycles, however it is best to prevent the product from freezing. If frozen, allow the material to rise slowly to room temperature and stir occasionally. Do not cure with steam.

Contact PENETRON HELLAS S.A. for additional information, regarding your project.

PACKAGING

PENETRON® ACRYLIC BONDCRETE™ is available in 1 gallon (3.8 Lt) containers.

STORAGE / SHELF LIFE

When properly stored in a dry place in unopened, undamaged original packaging, shelf life is 12 months. Always keep in warm dry place. Always tightly reseal container.

SAFE HANDLING INFORMATION

Use rubber gloves, during mixing and application. Use goggles, during spraying and overhead applications. If eye contact occurs, flush immediately and repeatedly with fresh water, then contact physician without delay. Wash exposed skin areas with soap and water. KEEP OUT OF REACH OF CHILDREN. For further information please refer to Safety Data Sheet. PENETRON HELLAS S.A. has recently updated Safety Data Sheet on the safe use of PENETRON® products. Each Safety Data Sheet contains health and safety information for the protection of your employees and your customers.

WARRANTY - DISCLAIMER

PENETRON HELLAS S.A. warrants that its products are manufactured under certified ISO Standard procedures, are of excellent quality and shall be free from material defects and contain all components in their proper proportion. Should any of the products be proven defective, the liability to PENETRON HELLAS S.A. shall be limited to replacement of the material proven to be defective, since the standard application procedures have been met and the suitability of the product for the particular application have been proven. PENETRON HELLAS S.A. makes no warranty as to merchantability of fitness for a particular purpose. User, after contacting the distributor of the product, shall determine the suitability of the product for his intended use and assume all risks and liability in connection therewith. While every care has been taken, the information provided in this product's data sheet make no part of any contract. All recommendations, technical data and test data contained in this product's data sheet are based upon the results of control laboratory tests or in actual field tests. However, PENETRON HELLAS S.A. makes no warranty of any kind, concerning this data. In any case, this data are given in good faith based in the PENETRON HELLAS S.A. experience, till the publication of this sheet. Due to variance in storage, handling and applications of the materials, PENETRON HELLAS S.A. accepts no liability for the results obtained. It is suggested that potential users try small applications to determine the suitability of each individual product for their specific requirements. The users should always refer to the most recent edition of the product's data sheet. PENETRON HELLAS S.A. may particularly differentiate its versions of the product's data sheet compared with those of PENETRON INTERNATIONAL LTD or respective PENETRON companies worldwide. These changes are due to text formatting, different application weathering and procedures or different product names and aim at the optimal consumer information.

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