PRODUCT DATA SHEET

PENETRON® ACRYLIC BONDCRETE™

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ACRYLIC BONDING AGENT AND ADDITIVE

DESCRIPTION

PENETRON® ACRYLIC BONDCRETE™ is a 100% acrylic latex liquid, used as a high-strength admixture and bonding agent for 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
- Cement – sand mixes

ADVANTAGES

- Improves flexural strength
- Minimizes cracking
- Improves bond and impact strength
- Resists moisture
- Improves resistance to freeze/thaw cycling
- Ideal additive for concrete, plaster and stucco

DIRECTIONS FOR USE

Surface Preparation: When using as a bonding agent, surfaces must be clean, sound, dry, minimum 10°C (50°F), and free of oil, gypsum compounds, wax, grease, sealers, curing compounds, urethane, paint, asphalt, dirt, loose surface material or any contaminant that will act as a bond breaker. Never use acid or mastic removers on any surface. Mechanically prepare all surfaces to a minimum Concrete Surface Profile (CSP) 4 to 5, as per ICRI Guideline No. 310.2-1997. Unsound concrete surfaces must be prepared to solid sound concrete by additional means and methods, as per ICRI Guideline No. 310.2R-2013 “Selecting and Specifying Concrete Surface Preparation for Sealers, Coatings, Polymer Overlays, and Concrete Repair.”

NOTE: Moisten patch area thoroughly to a Surface Saturated Dry (SSD) condition with no standing water, keep continuously damp, for at least 1 hour before placement of the PENETRON® ACRYLIC BONDCRETE slurry, mortar or concrete mix. Remove all standing water prior to placement.

Mixing: Agitate and thoroughly mix the PENETRON® ACRYLIC BONDCRETE liquid immediately prior to use.

Application:

For Use as an Admixture PENETRON® ACRYLIC BONDCRETE™ can be used in horizontal, vertical and overhead patching applications. It may be used to replace all or part of the mixing water in cement mortar or concrete. Use 7,6 L (2 gal) minimum of PENETRON® ACRYLIC BONDCRETE™ per 43 kg (94 lb) bag of cement. 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 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 5-6 m^2/L (200-250 ft^2/gal), 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.

Curing: PENETRON® ACRYLIC BONDCRETE™ used in modified mortars, concretes or bonded applications generally require damp curing, followed by drying, in order to achieve full physical properties. Alternatively, after placement, a good quality water-based curing compound may be used. Increasing wet cure period improves physical properties and minimizes chances of cracking.

SPECIAL CONSIDERATIONS

Do not use as a neat bonding agent for any vertical, overhead or structural application or with rapid setting cementitious products.

PENETRON® ACRYLIC BONDCRETE is not a vapor barrier.

Do not use for patching asphalt.

Substrate must have a minimum direct tensile bond test reading of 0,5 MPa per ASTM C1583.

Protect patched areas from vibration, rain, wind, freezing and loading until desired strength is achieved.

PENETRON HELLAS S.A. recommends installing a test area, ensuring suitability of PENETRON® ACRYLIC BONDCRETE for intended use.

Clean all tools and equipment with water immediately after use, prior to material hardening.

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

PACKAGING

PENETRON® ACRYLIC BONDCRETE™ is available in 3,8 L (1 gal) containers.

STORAGE / SHELF LIFE

12 months from the date of manufacture, when unopened, undamaged original container is properly stored in a cool and dry place, unexposed to moisture and sunlight. Always tightly reseal container after use. DO NOT ALLOW TO FREEZE!

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

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