

EVERBOND™

High Strength, Acrylic Polymer Admixture and Bonding Adhesive for Concrete, Stucco, and Cement Based Patching Materials

MANUFACTURER

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PRODUCT DESCRIPTION

EVERBOND is a versatile acrylic polymer emulsion that can be used either as a bonding adhesive or as an admixture that enhances Portland cement-based mixes, giving these mixes improved flexural, tensile and bond strength. EVERBOND is a milky white, high solids emulsion that will not re-emulsify upon exposure to water, and is non-oxidizing and ultra-violet stable.

EVERBOND, when used as a bonding agent, becomes an integral part of the interface between the cementitious material and the surface to be bonded. EVERBOND creates a strong bond between materials to be bonded.

Basic Use: EVERBOND permits the improved adhesion of cementitious materials such as concrete toppings, stucco, terrazzo and ceramic tile setting beds, to structurally sound concrete, plaster or masonry.

EVERBOND is used in three simple ways:

As an admixture:

- EVERBOND can be added to portland cement-based repair mortars to increase their adhesion, freeze-thaw resistance, flexural strength and durability.

As a bonding agent:

- When used full strength EVERBOND bonds concrete repairs that are made in sidewalks, driveways, steps, floors, brick pointing and stucco. It will help bond portland cement mortars to brick, concrete block, clay tile, marble, metal and even glass block.

As a bonding slurry:

- EVERBOND can be added to portland cement to create a very strong and effective bonding slurry for concrete toppings and repair materials.

ESTIMATING

EVERBOND is available in 1-gallon (3.8-liter), 5 gallon (18.9-liter), and 55-gallon (208 liter) containers. Containers are identified with product name and batch number.

Typical Coverage Rates:

As a bonding agent:

Coverage is dependent on surface porosity.

Roughened concrete:

200-300 ft²/gallon (5-7.5 m²/liter)

Plaster or smooth concrete:

300-400 ft²/gallon (7.5-10 m²/liter)

As an admixture - ratios:

- Flatwork repairs: Add 1 part EVERBOND to one part water to dry repair mortar.
- Large concrete toppings and overlays: Add a mixture of 1 part EVERBOND/2 parts water to cement.

As a bonding slurry:

- Add undiluted EVERBOND to equal volume of portland cement.

TECHNICAL DATA

Applicable Standards:

ASTM C 1059, Type II

ASTM C 1042, Type II

MIL-B-19235(docks) Bonding Compound

GSA Specification for Bonding Adhesive

VOC compliant

Physical Properties of EVERBOND Modified Mortars:

Tensile Strength ASTM C 190 ...600 psi (4 MPa) avg.

Pulling Apart

Briquet Halves

Shear Strength

ASTM C 1042 >1250 psi (8.6 MPa) avg.

Slurry Coat2100 psi (14.5 MPa)

Flexural Strength

ASTM C 78725 psi (5 MPa) avg.

Concrete Beams Test

Freeze-Thaw Scaling

ASTM C 672No scaling

Resistance of 100 cycles modified concrete

Abrasion Resistance CRD-C 52-54 ..Good resistance

Stability after curing

Water immersion No re-emulsification
after 72 hours

Drytime, 2 mil film1 hr. At 70°F (21°C)

Ultra-violet stability

Angstrom lamp, 2500 hourNo change

VOC, grams/liter25

INSTALLATION

Preparatory Work: All surfaces must be clean, sound and free of all dust, cures, oil, dirt, efflorescence, mildew or loose material. Dull all shiny services with an abrasive. Thoroughly pre-dampen all concrete surfaces



with clean potable water to a saturated, surface dry (SSD) condition to reduce absorption.

Methods of Application: Apply EVERBOND by brush, spray or roller in a thin continuous film. Broom out puddles before installing topping. Do not allow to dry.

Flatwork Repairs: Concrete toppings should be a minimum of 3/4 inch (20 mm) and are to be butted to a vertical edge. Place EVERBOND and cement bonding slurry first, followed by repair mortar. Place within 20 minutes. Avoid overworking.

EVERBOND Reinforced Floor Toppings: A reinforced floor topping is suitable for featheredge work in light traffic areas. Place bonding slurry first. Do not overmix. Allow topping to cure a minimum of four days before exposing it to heavy wheeled traffic.

FOR BEST RESULTS:

- Surfaces to which EVERBOND is applied must be clean and structurally sound.
- Do not apply over frozen surfaces, water soluble paints, rust, laitance or peeling paint.
- Apply at temperatures of 4°C (40°F) and rising.
- Do not use as an admixture with concrete or mortar mixes containing air entraining admixtures.
- Do not expose newly placed EVERBOND-modified cement mixes to water immersion for at least 24 hours.
- Protect EVERBOND film from dirt or other contaminants until topping is placed.
- Do not allow film or slurry to dry before placing repair mortar or topping.
- Cover with wet burlap in hot weather to protect from rapid drying. Do not cure EVERBOND modified mortars on toppings with solvent based curing compounds.

PRECAUTIONS

Keep from freezing. Freezing will make this product useless. Avoid contact with skin, eyes and clothing. Wear skin and eye protection. Wash thoroughly after handling. Do not take internally.

Please refer to Product Material Safety Data Sheet (MSDS) before using.

STORAGE/SHELF LIFE

EVERBOND containers are to be kept tightly sealed and stored in a clean, dry area between 45-100°F (7-36°C). Shelf life is a minimum of one year when stored properly. Do not allow to freeze.

WEBSITE

L&M's convenient internet website offers instant access to Tech Data Sheets, Material Safety Data Sheets, product updates, and other useful information. Visit www.lmcc.com and follow the easy steps. L&M is ready to respond to your concrete information needs - anytime - anywhere!

LIMITED WARRANTY

This product is warranted to be free of defects in material and workmanship, and conform to L&M Construction Chemicals ("L&M") quality control standards. All recommendations, statements and technical data herein are based on tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty or guaranty of any kind, expressed or implied including but not limited to, an implied warranty of merchantability or an implied warranty of fitness for a particular purpose. Satisfactory results depend upon many factors beyond L&M's control. User shall rely on his or her own information and tests to determine suitability of the product for the intended use and user assumes all risk, loss, damage, expense and liability resulting from his or her direct use, indirect use or consequential to their use of the product. L&M shall not be liable to the buyer or any third person for any injury, loss or damage directly or indirectly resulting from use or inability to use the product. L&M's sole responsibility shall be to replace that portion of the product which proves to be defective. Any warranty claim must be made within six (6) months from the date of the claimed breach. This limited warranty applies only if the product was properly installed and used according to all instructions and was properly stored prior to use.

For professional use only.

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