

## PRODUCT DESCRIPTION

MC Acrylic Resin is a non-toxic, non-flammable, non-remulsifiable, water-based polymer modified acrylic bonding agent. MC Acrylic Resin, when added to Portland cement and M-Chem Solutions cementitious products, creates hard, tough, fast curing and chemically resistant systems. The MC Acrylic Resin film, when used as a bonding agent, displays excellent adhesion and resistance to ultra violet light and heat.

## GENERAL USE

- MC Acrylic Resin is designed to add bonding quality and strength along with improved curing for M-Chem Solutions cementitious products or as an admixture to Portland cement-based mixes and toppings for patching or resurfacing.
- Mixed with cement plaster to increase bonding and reduce cracking
- Mixed with Portland cement base or M-Chem Solutions product mixes to add durability and adhesion and to minimize absorption of harmful compounds.
- Bonding agent for plaster and stucco
- Bonding agent for fresh concrete to hardened concrete

## FEATURES

- Improve impact resistance
- Enhances adhesion
- Adds strength and durability
- Reduces shrinkage and cracking
- As admix minimizes absorption
- May be used on damp or dry surfaces
- Excellent bonding of new concrete to old
- Increased flexural and tensile strength
- VOC compliant. Water base technology
- Improved freeze thaw resistance

## STANDARDS

LEED® EQ Credit 4.2 Low – Emitting Materials: Paints & Coatings  
ASTM C 1059, Type II.

## INSTRUCTIONS FOR USE

### Surface Preparation

The surface must be thoroughly clean, free from dust, dirt, grease, wax, oil, or other bond inhibiting materials. Remove all unsound concrete, loose material and foreign matter by scarifying or other mechanical means. If substrate temperature is high, surface should be moistened (damp to the touch – no standing water) prior to any application.

### Mixing

When MC Acrylic Resin is to be diluted, mix the MC Acrylic Resin and water first before adding the liquid to the dry mix. Stir the mixing liquid first, place the MC Acrylic Resin in a clean container and then slowly add the dry mix. In cement-sand or concrete mixes, mix for a very short time (1-2 minutes). Over mixing entrains excessive air.

## Application

Coverage: 200-300 sq. ft. per gallon (4.9-7.4 m<sup>2</sup>/l) depending upon the surface.

**Bonding Agent:** Apply directly from the container over damp or dry surfaces with brush, roller or sprayer, forming a thin, continuous film. Immediately apply cementitious materials that will interlock with the structure. DO NOT allow MC Acrylic Resin to dry prior to cementitious product's application. Once MC Acrylic Resin and cement dry, the bond is unaffected by humidity or condensation.

**Bonding Admixture:** Premix sand and cement. Mix water and MC Acrylic Resin together at a ratio of 1:1. The blend is added to the mortar mix and blended no more than two to four minutes until proper consistency is reached.

**Concrete overlays:** Any concrete topping over the film must be applied immediately after MC Acrylic Resin has been applied as a bonding agent and should be abutted to an adjacent edge. Follow ACI standards in preparing, applying and curing the concrete topping.

**Cement cracks and joints:** Mix MC Acrylic Resin 50-50 with water. Add cement until a putty consistency is reached. Smooth off with a wet trowel and allow to set overnight. If crack is deep, fill until flush with surface.

**Terrazzo topping:** Use for 1/2" (1.27 cm) cement terrazzo topping, anchor T strips to slab before applying MC Acrylic Resin to control cracking.

**Portland cement plaster bedcoats:** Use where two coat work is required, e.g., uneven concrete, block and brick. Bond first coat with MC Acrylic Resin at a minimum of 3/8" (1 cm) thick.

**Bedcoats, mortar setting beds:** Use to bond the bedcoat for stone finishes, such as marblecrete and mortar setting beds for ceramic tile, precast, terrazzo, etc.

When drying is rapid, due to high temperature, rapid air movement, etc., cover surface with wet burlap. For normal use, allow surface to cure for 24-48 hours; for heavy traffic, a 4-day curing period is required.

## Cleaning

Prior to curing, MC Acrylic Resin may be cleaned-up using water.

## PACKAGING

- 55-gallon (208 L) drums (3/pallet)
- 5-gallon (18.9 L) pails (24/pallet)
- 1-gallon (3.8 L) jugs (x/case)

## STORAGE AND HANDLING

MC Acrylic Resin should be stored indoors and, when left in its original unopened package will maintain its designed performance characteristics for 12 months.

**PROTECT FROM FREEZING.** Freezing may damage contents. Frozen material should be placed immediately in warm spot to thaw but direct heat should not be applied. If MC Acrylic Resin can be stirred to a milky homogeneous consistency, its performance may not be impaired. Do not store in temperature above 120°F. Keep out of inclement weather.

**LIMITATIONS/WARNINGS**

- Do not apply MC Acrylic Resin modified mixes when temperature is below 40°F or when temperature is expected to fall low 40°F within 48 hours. High humidity and excessive moisture will retard curing time of MC Acrylic Resin modified mixes.
- Do not use with air-entrained cement. Do not use MC Acrylic Resin where circulation of air is limited, i.e.: enclosed reservoirs.
- Do not fill cisterns, tanks, etc. with water for at least 7-8 days when sealed with a coating modified with MC Acrylic Resin.
- Refer to Safety Data Sheet prior to use.

**VOC content:** 0.0 g/L. Complies with USA and Federal AIM VOC standards. Do not thin or dilute.

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Limited Warranty: Subject to the conditions and limitations stated below, M-Chem Solutions LLC ("M-Chem") warrants this product to be free from manufacturing defects for a period of one (1) year from the date of purchase of the product. As conditions of this limited warranty, you may be required. At the option of M-Chem to provide proof of product purchase and use. **DISCLAIMER:** THIS LIMITED WARRANTY IS GIVEN IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WARRANTIES BASED ON SAMPLES OR ORAL STATEMENTS, WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF. IMPLIED WARRANTIES OF MERCHANTABILITY AND OF FITNESS FOR A PARTICULAR PURPOSE ARE EXCLUDED. **EXCLUSIVE REMEDY:** The sale and exclusive remedy for a breach of this limited warranty is replacement of the M-Chem product that is proven defective. In the event this sole and exclusive remedy fails of its essential purpose, the liability of M-Chem is limited to return of the original purchase price. **EXCLUSION:** M-Chem is not responsible for workmanship not in accordance with M-Chem instructions and industry standard guidelines. M-Chem IS NOT LIABLE FOR ANY INCIDENTAL DAMAGES OR CONSEQUENTIAL DAMAGES, INCLUDING LOSSES DUE TO DELAYS, INCURRED BY THE PURCHASER OR ANY OTHER PARTY.

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