



CureCrylic® Premium 939

Acrylic Latex Admixture for Dry-Set Mortars — EGP

PRODUCT DESCRIPTION

CURECRYLIC® 939 Premium Admixture is an acrylic latex emulsion that has been specifically formulated for addition to C-Cure dry-set mortars to provide a bond coat for all types of tile over a variety of substrates including exterior grade plywood (EGP).

CURECRYLIC PREMIUM 939 will provide improved bond strengths, freeze-thaw stability and increased flexural strength over normal dry-set mortars.

► BASIC USE

CURECRYLIC PREMIUM 939 is primarily used as a dry-set mortar additive in lieu of water to produce a bond coat for setting absorptive, semi-vitreous, vitreous and impervious tiles for service in residential and commercial use. It is suitable for interior and exterior use in a mortar bed as thin as 3/32" to 3/16" (2.4 to 5 mm) after tiles have been properly embedded. CURECRYLIC PREMIUM 939 modified dry-sets have excellent impact resistance, are water cleanable, non-flammable, and greatly reduce water absorption which weakens normal bonding material when subjected to freezing conditions. CURECRYLIC PREMIUM 939 modified dry set mortars are not affected by prolonged contact with water after curing but do not form a waterproof barrier.

► AREAS OF USE

Suitable backings, when properly prepared, include plumb and true masonry, concrete cementitious backer units, cured Portland cement mortar beds, brick, ceramic tile and marble. For interior dry areas only, it can be used over gypsum board and exterior grade plywood.

► LIMITATIONS

CURECRYLIC PREMIUM 939 must not be used over asphalt sheeting, vinyl covered wall board, Masonite®, cement asbestos board, luan plywood, metal, glass, plastic or gypsum mortar beds. Improperly cured or wet plywood, particle board or stripwood surfaces are not considered suitable substrates. Apply in a temperature range of 40°F to 90°F (4°C to 32°C). Do not allow mortar to freeze for the first 72 hours. When used to install tile in an area that will be continually wet (e.g. swimming pools, gang showers, etc.) it is recommended that the complete installation shall be cured a minimum of 14 days and allowed to thoroughly dry before exposure to water.

► APPLICABLE STANDARDS

Conforms to requirements for dry set mortars found in ANSI A108.5, ANSI A118.1, ANSI A118.4 and C.T.I. 64-1.

Color — White liquid.

Texture — Free-flowing liquid.

► PACKAGING

4 / 1 gallon (3.78 L) bottles, 5 gallon (18.9 L) pails, 55 gallon (208.2 L) drums.

INSTALLATION

► PREPARATORY WORK

All surfaces on which tiles are to be set must be dry, structurally sound and not subjected to temperatures below 40°F (4°C) or above 100°F (38°C). Detailed procedures may be found in the TCA Handbook and ANSI A108.5.

Surfaces must be dry and free of all grease, oil, dirt, dust, curing compounds, sealers, coatings, efflorescence, old adhesive residues, gypsum based underlayments and any other foreign matter.

► CEMENTITIOUS SUBSTRATES

Cleaning may be accomplished via mechanical sanding, scraping or chipping. Surfaces may be cleaned with muriatic (*use proper precautions*) acid if thoroughly flushed and neutralized. Smooth, steel troweled concrete surfaces must be roughened to ensure a good bond. It is advisable to dampen dry porous concrete before installing ceramic tile with a CURECRYLIC PREMIUM 939 modified dry-set mortar. Do not leave puddles or standing water on surfaces.

► PLYWOOD SUBSTRATES

All wooden flooring, when placed over conventional floor joist or other systems should be of a design and thickness so as to maintain a substrate deflection not to exceed 1/360th of the span, including live and dead load. Further, the floors to receive the CURECRYLIC PREMIUM 939 modified dry-set should be exterior grade plywood only, secured with screw-type nails and glued where possible. A gap of 3/16" (5 mm) shall be left between sheets of plywood and between the plywood edges and all materials which they abut to allow for expansion. These gaps shall remain empty when the installation is complete. In addition, all wooden surfaces must be for interior use only and protected from exposure to water.

► NON-CEMENTITIOUS SUBSTRATES

Surfaces such as stripwood and old plaster or painted surfaces that provide bonding problems should be covered with a cleavage membrane topped with a 3/8" to 3/4" (9.5 to 19 mm) reinforced mortar bed for walls and a 1 1/4" (32 mm) reinforced mortar bed for floors. After a minimum of 20 hours, the dry-set mortar may be applied to the mortar bed.

► CERAMIC TILE SUBSTRATES

It is absolutely essential that the existing tile be well bonded. The surface must be prepared in accordance with the requirements for cementitious surfaces. It is also necessary to abrade the surface to assure proper bonding.

► EXPANSION JOINTS

Shall be installed in accordance with local building codes. See EJ171 in TCA Handbook for detailed specifications.

► MIXING AND INSTALLATION

Due to the nature of this product, it should be used in conjunction with one of C-Cure's product meeting ANSI A118.1 upon which detailed mixing and installation procedures will be found.

► CLEANING

Water is all that is needed to remove uncured CURECRYLIC PREMIUM 939.

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GUARANTEE

The recommendations, suggestions, statements and technical data are based on the best knowledge available to C-Cure and are given for informational purposes ONLY and without any responsibility for their use.

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CURECRYLIC PREMIUM 939 TECHNICAL DATA

| TEST | REQUIREMENT | DRY-SET WITH CURECRYLIC PREMIUM |
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| A. Bond Strength Vitreous Tile | ANSI A118.4 7 Days 28 Days | >200 psi (14 kg/cm ²) >300 psi (21 kg/cm ²) >400 psi (28 kg/cm ²) >350 psi (25 kg/cm ²) |
| B. Bond Strength Vitreous Tile (over wood) | 7 Days 28 Days | N/A N/A 200 psi (14 kg/cm ²) 300 psi (21 kg/cm ²) |
| C. Bond Strength Non-Vitreous Tile | 28 Days | 300 psi (21 kg/cm ²) 650 psi (45 kg/cm ²) |
| D. Compressive Strength ASTM C-109 (air dry) | 7 Days 28 Days | >2100 psi (148 kg/cm ²) >2600 psi (183 kg/cm ²) >2400 psi (169 kg/cm ²) >3500 psi (246 kg/cm ²) |
| E. Water Absorption | ANSI A118.6 | <8.0% <4.0% |
| F. Safety—CAUTION: Avoid inhalation of vapors, use in well ventilated areas. Avoid contact with eyes or skin. In case of contact with eyes, flush with water and call physician immediately; for skin contact, wash with warm soapy water. If material is swallowed, call physician immediately. | | |
| KEEP OUT OF REACH OF CHILDREN | | |
| G. Storage Life—One year if kept in sealed containers, stored in a dry area. Protect from freezing during storage. | | |

Members of National Tile Contractors Association,
Materials & Methods Standards Association, Ceramic Tile Distributors Association.

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C-CURE
Seal Beach, CA 90740
800-895-2874
www.c-cure.com