

Latex-Portland Cement Mortar System

PRODUCT DESCRIPTION

C-Cure's CURECRETE[®] 936 Latex-Portland Cement Mortar System consists of a premium latex additive and a dry-set mortar powder. CURECRETE 936 is designed for the installation of tiles in demanding exterior and interior conditions. Because of its superior bond and flexural strengths, it is ideally suited for areas subjected to movement, vibration and thermal shock.

▶ BASIC USE

CURECRETE 936 is a cost effective system for large, heavily trafficked installations. It is used as a bond coat for setting absorptive, semi-vitreous and vitreous tiles for service in residential and commercial use, for both floor and wall installations. It is used in a mortar bed as thin as 3/32" (2.4 mm) after the tiles have been properly embedded. Because of the special latex formulation, this dry-set mortar more easily adjusts to tile and substrate expansion and contraction caused by temperature changes without shearing. This product is non-staining, non-toxic, non-shrinking and is not affected by prolonged contact with water even under freezing conditions. This product is more waterproof than conventional dry-set mortar systems, but should not be considered as a waterproof barrier.

▶ AREA OF USE

Suitable backings, when properly prepared, include plumb and true masonry, concrete, gypsum board (*dry interior walls only*), cementitious backer units, cured Portland cement mortar beds, brick, ceramic tile, stone and open cell polystyrene.

▶ LIMITATIONS

C-Cure's latex-mortar system must not be used directly over wood, asphalt sheeting, vinyl covered wall board, Masonite[®], cement asbestos board, metal, plastic or gypsum mortar beds. Use in a temperature range above 40°F (4°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, and 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 latex-Portland cement mortars as found in ANSI A118.4, ANSI A108.5 and C.T.I. 64-1 when mixed with CURECRETE 936 powder.

Color — White liquid. Eventual color will be determined by choice of cement, white or gray.

Texture — Heavy bodied liquid.

▶ PACKAGING

4/1 gal. (3.89 L) bottles, 5 gal. (18.9 L) pails, 55 gal. (208.2 L) drums.

INSTALLATION

▶ PREPARATORY WORK

All 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.

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

▶ CEMENTITIOUS SUBSTRATES

Cleaning may be accomplished via mechanical sanding, scraping or chipping. Surfaces may be cleaned with muriatic acid if thoroughly flushed and neutralized. (*Use proper precautions.*) Smooth, steel troweled concrete floors must be roughened to ensure a good bond. It is advisable to dampen dry porous concrete before installing ceramic tile with CURECRETE 936. Do not leave puddles or standing water on surface.

▶ NON-CEMENTITIOUS SUBSTRATES

Surfaces such as wood 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 1/4" (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 EJ 171 in TCA Handbook for detailed specifications. Expansion joints, control joints and cold joints shall never be bridged with setting material.

▶ MIXING

In a clean container, to 1 1/2 gals. (5.68 L) of CURECRETE 936 liquid, add 50 lbs. (22.7 kg) of CURECRETE 936 powder. Mix thoroughly until smooth and let mortar slake for 15 minutes, then remix. Mechanical mixers must be 150 RPM or lower to avoid entraining air which will substantially weaken the mortar. Do not add water, additional latex, or powder after slaking period.

The proper mortar consistency is such that when applied with a notch trowel to the substrate, the ridges formed in the mortar will not flow or slump.

Do not use mortar after initial set in bucket. During use, remix mortar occasionally.

▶ APPLICATION

Spread mortar with flat side of trowel to key into substrate. Then, apply additional mortar to a depth sufficient to be notch with a suitable trowel that will leave only enough mortar to give 100% contact with back of tile and a subsequent mortar bed of 3/32" to 3/16" (2.4 to 5 mm). With high lug tiles, "back-buttering" may be required to ensure 100% coverage to back of tiles. During the setting of tile, it is advisable to occasionally remove a tile to be sure mortar has not skinned over and sufficient transfer is being made. It is also required that tiles be embedded to obtain good transfer of mortar to tile and for proper alignment. Do not adjust tiles in mortar after they have been set past 15 - 20 minutes.

NOTE: As a practical test, it is recommended that 3 or more separate 12 inch square (.3 m²) areas of tile be bonded to the properly prepared surface with the actual tile and bonding materials that will be used on the finished installation. These should be allowed to cure for three (3) to seven (7) days and then removed with a hammer and chisel. At this point, one can determine if adequate bond has been obtained or if a problem exists.

▶ Cleaning

Water is all that is needed to remove uncured mortar.

▶ CURING AND GROUTING

A minimum cure is obtained in 12 - 24 hours, depending on ambient temperatures. Grouting can be done before the mortar takes its final set if caution is used not to break the plastic mortar bond to the tile. Normal grouting should be done 48 hours later.

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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CureCrete[®] 936

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CURECRETE 936 TECHNICAL DATA			
TEST	REQUIREMENT		TYPICAL VALUES
A. Open Time @ 70°F (21°C)			20 Minutes
B. Adjustability @ 70°F (21°C)			25 Minutes
C. Bucket Life @ 70°F (21°C)			6 Hours
D. Compressive Strength ASTM C-109			>5000 psi (352 kg/cm ²)
E. Shear Bond ANSI A118.4 Non-Vitreous Tile	Dry Cure	7 Days	>300 psi (21 kg/cm ²) min
		28 Days	>300 psi (21 kg/cm ²) min
	Water Immersion	7 Days	>200 psi (14 kg/cm ²) min
		28 Days	>200 psi (14 kg/cm ²) min
	Freeze-Thaw	7 Days	>200 psi (14 kg/cm ²) min
		28 Days	>200 psi (14 kg/cm ²) min
Quarry Tile	Dry Cure	7 Days	>100 psi (7 kg/cm ²) min
		28 Days	>150 psi (11 kg/cm ²) min
	Freeze-Thaw	28 Days	>100 psi (7 kg/cm ²) min
Impervious Ceramic Mosaics	Dry Cure	7 Days	>200 psi (14 kg/cm ²) min
		28 Days	>200 psi (14 kg/cm ²) min
	Water Immersion	7 Days	>200 psi (14 kg/cm ²) min
		28 Days	>200 psi (14 kg/cm ²) min
	Freeze-Thaw	28 Days	>175 psi (12 kg/cm ²) min
F. Water Absorption ANSI A118.6	7%		<4%
G. 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 a physician immediately; for skin contact, wash with warm soapy water. If material is swallowed, call physician immediately.			
KEEP OUT OF REACH OF CHILDREN			

*These values reflect the results of practical testing methods closely associated with applications in the field.

COVERAGE			
PRODUCT	SQUARE FEET (M ²) PER 50 LB. (22.7 KG) BAG		
	1/4" x 1/4" x 1/4" (6 x 6 x 6 mm) Square-Notch Trowel	1/4" x 3/8" x 1/4" (6 x 9.5 x 6 mm) Square-Notch Trowel	1/2" x 1/2" x 1/2" (13 x 13 x 13 mm) Square-Notch Trowel
CURECRETE [®] 936	79 (7.3)	68 (6.3)	41 (3.8)

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

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