

## Fast Setting Polymer-Modified Portland Cement Underlayment and Patching Compound

### PRODUCT DESCRIPTION

UNILAYMENT® FASTSET is a fast-curing, latex-modified, mildew-resistant, Portland cement-based leveling and patching compound for floors prior to the installation of resilient flooring, carpet, ceramic tile, slate, granite or marble. For general applications, UNILAYMENT FASTSET 969 requires only water to develop a dense, water-resistant surface. When UNILAYMENT FASTSET 969 is properly mixed (with water) it will featheredge to a non-checking, non-cracking, durable surface 0 - 1/2" thick (0 - 13 mm). UNILAYMENT FASTSET 969 is available in two grades: Sanded and Non-Sanded.

#### ▶ BASIC USE

UniLayment FastSet 969 is used for rapid patching and leveling uneven, rough or unfinished concrete surfaces. It may be used over cementitious backer units on interior installations (*over exterior grade plywood*) and properly prepared old cutback adhesive.

#### ▶ AREAS OF USE

UNILAYMENT FASTSET 969 may be used on interior or exterior applications where a permanent water resistant surface is required. UNILAYMENT FASTSET hardens by hydration (curing). Like all Portland cement products, strength increases significantly during the initial 28 days. UNILAYMENT FASTSET 969 may be applied as thick as 1/2" (13 mm) to featheredge in a single application without fear of shrinking, cracking or spalling.

#### ▶ LIMITATIONS

Do not use UNILAYMENT FASTSET 969 over gypsum based surfaces, old adhesive residue, paints, particle board, luan plywood, plastics, vinyl products, epoxy or urethane floor coverings. Use in temperature range of 40°F to 90°F (4°C to 32°C) (*Do not allow mortar to freeze for the first 72 hours.*) UNILAYMENT FASTSET 969 shall never be applied to dry concrete. Dampen concrete floor with clean water but do not let puddles remain. Apply underlayment while floor is still damp. UNILAYMENT FASTSET 969 may be used as a wearing surface in areas which do not require high chemical resistance or will not exceed moderate traffic (*equivalent to passing test cycles 1 through 10 of ASTM C-627*) i.e., light institutional and commercial installations. For installation of rubber tile and other non-porous backed flooring use an epoxy or a pressure sensitive adhesive.

#### ▶ APPLICABLE STANDARDS

Color — Gray.  
Texture — Powder, consisting of Portland cement, sand (Sanded grade only), organic and inorganic materials.

#### ▶ PACKAGING

25 lb. (11.3 kg) bags.

### INSTALLATION

#### ▶ PREPARATORY WORK

All surfaces must be structurally sound and non-flexing. Deflection shall not exceed 1/360 of the span including live and dead load. Remove all dust, waxes, sealers, old adhesive residues (*for cutback adhesive residue, see "Old Cutback Adhesive" section*), curing compounds, oils, gypsum based materials, surface hardeners, paints, old floorings and other loose or foreign material before application.

#### ▶ CEMENTITIOUS FLOORS

Cleaning may be accomplished via mechanical sanding, scraping or chipping. Surfaces may be cleaned with muriatic acid (*use proper precautions*) 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 UNILAYMENT FASTSET 969 mortar. Do not leave puddles or standing water on surfaces.

#### ▶ WOOD SUBSTRATES

All wooden flooring should be structurally sound with no flexing. Only spot patching should be done on wood substrates. If a leveling layer over 5 ft. (1.5 m) in diameter is required use LEVELCURE® SLU 961 or LCB 951 or proceed as follows: Exterior Grade Plywood (EGP) must first be securely fastened. Allow a gap of 3/16" to 1/4" (5 to 6 mm) between sheets of plywood for expansion by proper spacing during installation or saw cutting after installation of plywood. Cover the joint with adhesive tape prior to application of metal lath. All plywood flooring must be secured with screw-type nails and glued where possible. Nail or staple thin, galvanized metal lath to the floor. Install 1/4" to 1/2" (6 to 13 mm) thickness of UNILAYMENT FASTSET 969 mortar over the metal lath.

#### ▶ OLD CUTBACK ADHESIVE

Old cutback adhesive residue shall be hard and well bonded to the substrate. Scrape off all ridges and remove any loose cutback. Remove all loose concrete or old patching or leveling compounds. Wet mop to remove any dust and dirt as necessary and let dry. Next, mix the UNILAYMENT FASTSET 969 with clean water and apply to the entire area at 1/16" (1.6 mm) thick. For areas from 1/16" to 1/2" (1.6 to 13 mm), upgrade the mix with undiluted CUREMIX® 937 latex additive, at a rate of 2 1/2 quarts (2.4 L) per 25 lb. (11.3 kg) bag. Dry time is one hour minimum depending on jobsite conditions. Always check for moisture prior to installation of flooring materials.

NOTE: Old cutback residue in installations can be used for carpet, vinyl or rubber flooring only. As a practical test, it is recommended that three test areas of 12 square inches (.3 m<sup>2</sup>) of the finished flooring be installed. Allow test areas to cure for 3 days, then remove to assure adequate bond. For applications of ceramic tile and stone over cutback use UNIFLEX® 916, THINSET 911 with PORCELAIN STONE & TILE 948 additive, or PRO M-FLEX STRATA® FASTSET 914-FS to install the tile directly over the cutback. If leveling or patching over old cutback is required use UniLayment FastSet 969 powder mixed with Porcelain Stone & Tile 948 in lieu of water.

#### ▶ SPECIAL SURFACES

Marble, terrazzo and existing ceramic tile surfaces must be well bonded to subfloor, cleaned of any waxes, and abraded to a rough surface prior to application of UNILAYMENT FASTSET 969.

#### ▶ COVERAGE

Average coverage will be approximately 25 - 27 sq. ft. (2.3 - 2.5 m<sup>2</sup>) per 25 lb. (11.3 kg) bag at 1/8" (3 mm) thickness.

#### ▶ MIXING

**Sanded:** Mix one 25 lb. (11.3 kg) bag of UNILAYMENT FASTSET 969 with 2.5 qts. (2.4 L) of clean water or PORCELAIN STONE & TILE 948 latex additive to increase bond and adhesive strength. **NonSanded:** Mix one 25 lb. (11.3 kg) bag of UNILAYMENT FASTSET 969 with 4 quarts (3.78 L) of clean water or PORCELAIN STONE & TILE 948 latex additive. Mix amounts that can be applied in 10 minutes. Always add the powder to the liquid and mix with a low speed drill (300 RPM or less) until a lump-free mix is obtained. Use a mixing paddle that does not entrap air into the mortar.

NOTE: Do not add any foreign liquids or powders to UNILAYMENT FASTSET 969.

#### ▶ APPLICATION

Dampen the substrate with clean water (except for wood substrates) prior to application of UNILAYMENT FASTSET 969. Force in the initial coat with a trowel. Build the material to the desired thickness, not to exceed 1/2" (13 mm). Start finishing immediately using a flat steel trowel. This product should not be over-troweled. Frequently dip trowel in water often to make finishing easier. Clean tools. UNILAYMENT FASTSET 969 may be sanded after a hard set (usually within 1 hour under normal conditions). Applications 1/2" to 1" (13 to 25 mm) in depth of UNILAYMENT FASTSET 969 Sanded powder will require addition of a coarse masonry sand aggregate at a rate of 8 lb. (3.6 kg) or 10 lb. (4.5 kg) pea gravel {1/8" to 1/4" (3 - 6 mm)} size to each 25 lb. (11.3 kg) of UNILAYMENT FASTSET 969 Sanded powder.

## ► CURING

A minimum cure time is obtained in 60 - 90 minutes, depending on ambient conditions. If the new floor coverings and bonding adhesives are affected by moisture, the UNILAYMENT FASTSET 969 should be tested by a moisture meter prior to installation of subsequent flooring. Allow the UNILAYMENT FASTSET 969 to dry to an acceptable moisture level recommended by the manufacturers of the flooring materials and bonding adhesives. Always check moisture prior to installation of wood or resilient flooring materials.

## ► EXPANSION JOINTS

Expansion joints, saw cut (control) joints, cold joints or structural cracks shall not be covered with UNILAYMENT FASTSET 969. They should continue through the UniLayment FastSet 969 and the subsequent flooring material. Provide expansion joints every 20 - 24 feet (6 - 7.31 m) in each direction. Provide expansion joints through the UNILAYMENT FASTSET 969 at perimeter walls, dissimilar floors, curbs, columns, pipes etc. An architect or structural engineer must specify expansion joints and show location and details on drawings. Follow procedures EJ 171 in the TCA Handbook.

## ► CLEAN-UP

Water is all that is needed to remove uncured mortar.

## ► WARRANTY

UNILAYMENT FASTSET 969 is included in C-Cure's Five Year System Warranty. For terms and conditions see Warranty Document #WRTDS.

# UniLayment® FastSet 969

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UNILAYMENT FASTSET 969 TECHNICAL DATA				
TEST	TYPICAL VALUES			
	SANDED		NONSANDED	
A. Working Time @ 70°F (21°C)	10 Minutes		10 Minutes	
B. Initial Set @ 70°F (21°C)	15 Minutes		15 Minutes	
C. Final Set @ 70°F (21°C)	30 Minutes		30 Minutes	
D. Compressive Strength ASTM C109	2 Hours	800 psi (56 kg/cm <sup>2</sup> )	1200 psi (84 kg/cm <sup>2</sup> )	
	24 Hours	1700 psi (120 kg/cm <sup>2</sup> )	3000 psi (211 kg/cm <sup>2</sup> )	
	7 Days	2500 psi (176 kg/cm <sup>2</sup> )	4000 psi (281 kg/cm <sup>2</sup> )	
	28 Days	3900 psi (274 kg/cm <sup>2</sup> )	4600 psi (323 kg/cm <sup>2</sup> )	
E. Flexural Strength ASTM C348	28 Days	800 psi (56 kg/cm <sup>2</sup> )	800 psi (56 kg/cm <sup>2</sup> )	
F. Bond Strength ASTM D3931	28 Days	400 psi (28 kg/cm <sup>2</sup> )	400 psi (28 kg/cm <sup>2</sup> )	
G. Safety—CAUTION: May cause eye, skin or lung injury. Contains free silica. Prolonged exposure to dust may cause delayed lung disease (silicosis). Eliminate exposure to dust. Use NIOSH approve mask for silica dust. Contains Portland cement. If any cement or cement mixtures get into eye, flush immediately and repeatedly with water, and consult a physician promptly. Freshly mixed cement, mortar, concrete or grout may cause skin injury. Avoid contact with skin where possible and wash exposed skin areas promptly with water.				
KEEP OUT OF REACH OF CHILDREN.				
H. Storage Life—One year if kept in sealed bags.				

## 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.

C-Cure MAKES NO WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THE PRODUCT SOLD HEREIN except that the quality of the ingredients shall be in accordance with C-Cure specifications. It is expressly understood and agreed that the buyer's sole and exclusive remedy shall be replacement of defective products and under no circumstances shall C-Cure be liable for incidental or consequential damages. C-Cure neither assumes nor authorizes any others to assume for it any liability with respect to furnishing of the product. Handling and use of the product are beyond the control of C-Cure, therefore, no warranty is made, expressed or implied, as to the results obtained from the use of the product or against any claims for infringement of patents resulting from the use of the product.

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Materials & Methods Standards Association, Ceramic Tile Distributors Association.

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