



Advanced Poly-Fusion Technology

# M-Flex Strata<sup>®</sup> FastSet 914-FS

Flexible, Fast-Curing Latex-Portland  
Cement Mortar — EGP

## PRODUCT DESCRIPTION

PRO M-FLEX STRATA<sup>®</sup> FASTSET 914-FS is a flexible, fast-setting, polymer-modified mortar that is composed of an integral blend of special dry polymers and plasticizers for flexibility, special chemical additives for fast-setting properties, Portland cement and sand. PRO M-FLEX STRATA FASTSET 914-FS allows the contractor to grout within two hours of setting tile so the finished installation can be open to foot traffic in 4 - 6 hours. PRO M-Flex Strata FastSet 914-FS provides a permanent installation with faster set times, higher bond and flexural strength and lower material and labor costs than conventional Portland cement mortar beds.

## DIRECTIONS

### ▶ BASIC USE

PRO M-FLEX STRATA FASTSET 914-FS is used as a bond coat for setting absorptive, semi-vitreous, vitreous and impervious ceramic tiles for service in residential and commercial use for both floor and wall installations. It is used in a mortar bed from 3/32" to 3/16" (2.4 to 4.8 mm) after the tiles have been properly embedded. PRO M-FLEX STRATA FASTSET 914-FS has excellent water and impact resistance, is water cleanable (while wet), non-flammable and good for exterior work. No presoaking of tiles is necessary. PRO M-FLEX STRATA FASTSET 914-FS is not affected by prolonged contact with water, but does 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, marble, asbestos-free vinyl and plastic laminates. For interior dry areas only, PRO M-FLEX STRATA FASTSET 914-FS may be used over gypsum wallboard and exterior grade plywood.

### ▶ LIMITATIONS

PRO M-FLEX STRATA FASTSET 914-FS must not be set over wood, asphalt sheeting, vinyl covered wall board, Masonite<sup>®</sup>, cement asbestos board, metal, glass, plastic, or gypsum mortar beds. 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. Not recommended for setting moisture sensitive green, black or resin-backed marble. Use COLORSET EPOXY 931.

### ▶ APPLICABLE STANDARDS

Conforms to requirements for latex Portland cement mortars found in ANSI A108.5, A108.12, ANSI A118.4, and A118.11.

### ▶ PACKAGING

50 lb. (22.7 kg) multi-wall bags.

## INSTALLATION

### ▶ PREPARATORY WORK

All surfaces on which tiles are to be set must be dry, structurally sound and not subject to temperatures below 40°F (4°C) or above 100°F (38°C). Surfaces must be dry and free of all grease, old adhesive residues, efflorescence, oil, dirt, dust, curing compounds, sealers, coatings, 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 C-CLEAN 985 (Sulfamic 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 PRO M-FLEX STRATA FASTSET 914-FS mortar. Do not leave puddles or standing water on surfaces. Substrate deflection should not exceed 1/240 of the span.

### ▶ 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 cure of 20 hours, PRO M-FLEX STRATA FASTSET 914-FS may be applied to the mortar bed. Plastic laminate shall be sanded and well bonded to its substrate. Prepare laminate in accordance with the requirements for cementitious surfaces.

### ▶ PLYWOOD SUBSTRATES

All plywood substrates should be of a design and thickness that will not deflect more than 1/360 of span, including live and dead load. Further, the flooring to receive the PRO M-FLEX STRATA FASTSET 914-FS mortar must 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 after the installation is complete. In addition, all plywood surfaces must be for interior use only and protected from exposure to water.

### ▶ 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 ensure proper bonding.

### ▶ MOVEMENT JOINTS

Expansion joints shall be installed in accordance with local building codes. See EJ171 in TCA Handbook for detailed specifications. Expansion joints, contraction joints and construction joints shall never be bridged with setting material.

### ▶ MIXING

PRO M-FLEX STRATA FASTSET 914-FS should be added to clean, potable water at the rate of approximately 1 1/2 gallons (5.7 L) per 50 lb. (22.7 kg) bag. Use immediately after mixing — do not allow to slake. Remix for 5 minutes to extend working time. If a mechanical mixer is used, it must be done at a low RPM (300 or less) to avoid entrapping air into the mortar. Do not add water or additional powder after mixing. 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

Key the mortar into substrate with the flat side of trowel, then apply additional mortar with a suitable notch trowel that will give 100% contact with the tile and a subsequent mortar bed 3/32" to 3/16" (2.4 to 5 mm) after embedding the tile. 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. Tiles must be properly embedded to obtain good transfer of mortar to tile. Do not adjust tiles in mortar after they have been set past 10 minutes.

NOTE: As a practical test, it is recommended that three (3) or more separate 12-inch square (.3 m<sup>2</sup>) areas of tile be bonded to the properly prepared surface with the actual tile and bonding material 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

Grouting can begin as soon as tiles are firmly set (2 - 4 hours after setting). Allow installations to cure for an additional 3 - 4 hours before exposing to heavy traffic, depending on temperature and humidity.

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**WARRANTY**

PRO M-FLEX STRATA FASTSET 914-FS is included in C-Cure's Five Year System Warranty. For terms and conditions see Warranty Document #WRTDS.

**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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PRO M-FLEX STRATA FASTSET 914-FS TECHNICAL DATA			
TEST	REQUIREMENT		TYPICAL VALUES
*A. Open Time @ 70°F (21°C)			10 Minutes
*B. Adjustability @ 70°F (21°C)			15 Minutes
*C. Bucket Life @ 70°F (21°C)			2 Hours
D. Compressive Strength ASTM C-109			>3000 psi (211 kg/cm <sup>2</sup> )
E. Shear Bond ANSI A118.1 Non-Vitreous Tile	7 Days	>300 psi (21 kg/cm <sup>2</sup> )	>500 psi (35 kg/cm <sup>2</sup> )
	28 Days	>300 psi (21 kg/cm <sup>2</sup> )	>600 psi (42 kg/cm <sup>2</sup> )
Vitreous (Paver) Tile	7 Days	>100 psi (7 kg/cm <sup>2</sup> )	>250 psi (18 kg/cm <sup>2</sup> )
	28 Days	>150 psi (11 kg/cm <sup>2</sup> )	>400 psi (28 kg/cm <sup>2</sup> )
Non-Vitreous Tile (over wood)	7 Days	N/S	>250 psi (13 kg/cm <sup>2</sup> )
	28 Days	N/S	>400 psi (28 kg/cm <sup>2</sup> )
F. Flexible Properties ANSI A118.4 Flexural Strength ASTM C580 Modulus of Elasticity In Bending		<1.5 x 106 N/S N/S	4.2 x 105 834 8.7 x 105
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 approved 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 dry in sealed bag.			

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

COVERAGE		
PRODUCT	SQUARE FEET (M <sup>2</sup> ) 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
M-FLEX STRATA 914-FS	90 - 110 (8.4 - 10.2)	60 - 75 (5.6 - 7.0)

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

NOTICE: The information in this bulletin is presented in good faith, but no warranty, express or implied, is given nor is freedom from any patent. In as much as any assistance furnished by C-Cure with reference to the safe use and disposal of its products is provided without charge, C-Cure assumes no obligation or liability therefore, except to the extent that any such assistance shall be given in good faith.

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