



## PRODUCT INFORMATION

### flexrite

Elastomeric anti-fracture membrane and dry-set mortar

**FLEXRITE** is a high performance grade, technological break-through in the development of a truly elastomeric dry-set mortar for the installation of ceramic tile and stone. Composed of a unique synergism of latex polymers and portland cement, **FLEXRITE** may also be used as an elastomeric crack isolation membrane for the installation of ceramic tile, marble, slate and granite over a variety of surfaces.

#### TEXTURE:

Powder, consisting of portland cement and graded sand. Liquid, white flowable latex additive.

#### COLORS:

Gray

#### PACKAGING:

A "four gallon unit" consisting of a 2 gallons of Flexrite liquid and a 25 pound bag of Flexrite powder.

#### BASIC USE:

- > **FLEXRITE** is trowel applied to develop an elastic membrane that is designed to prevent existing cracks in the substrate from transferring through the tile installation.
- > **FLEXRITE** can be used in interior or exterior on floors and walls or anywhere a water-resistant "truly-stretchable" elastomeric setting material is desired for the installation of ceramic tile and stone surfaces.

#### AREA OF USE:

Suitable backings, when properly prepared, include cured portland cement mortar beds, existing ceramic tile, well bonded VCT or sheet vinyl (noncushioned), concrete slabs, steel decks, plastic laminates, concrete block and glass mesh mortar bed units. **FLEXRITE** can be used over cut-back adhesive residue properly prepared in accordance with the Resilient Floor Covering Institute paper on "Recommended Work Practices for Removal of Resilient Floor Coverings". Exterior grade plywood and gypsum board are suitable substrates in dry interior areas only. When used as an elastomeric crack isolation membrane, **FLEXRITE** allows installations over properly prepared shrinkage cracks as described in this product information sheet.

#### BENEFITS:

- > Due to its excellent flexibility, **FLEXRITE** allows the installation of hard surfaces to substrates subject to vibrations and deflection up to 1/240th of the span.

#### LIMITATIONS:

- > **FLEXRITE** must not be applied directly over asphalt sheeting, vinyl covered wall board, masonite, cement asbestos board, glass, aluminum, anodized surfaces or gypsum mortar beds. Improperly cured or wet plywood, particle board, or strip wood surfaces are not considered suitable substrates.
- > Do not apply to surfaces below 40 °F (4 °C) or above 90 °F (32 °C). Keep above 40 °F (4 °C) at least 72 hours after application to allow for proper cure.
- > Do not apply over wet surfaces or surfaces subject to hydrostatic pressure.
- > Some green or red marble may warp when installed with setting materials that contain water causing loss of bond and or damage to the finish. This marble must be set using EPOXYPLUS® TS.

- > Because of its soft nature, marble should not be installed over substrates with deflection in excess of 1/720th of the span. Never apply **FLEXRITE** over 3/16" (5mm) thick after embedding. **FLEXRITE** is not to be used as a wearing surface.

## TECHNICAL DATA

Appearance	White or gray powder
Density	10.4 pound/g when mix
*Pot life	6 hours
*Skim time	20 minutes
*Working time	Approx. 60 minutes
Open to traffic	72 hours
Curing temperature	40-120 °F
Hardness	30 shore "D" scale
Elongation (ASTM D751)	> 190%
Tensile strenght (ASTM D751)	> 120 psi
Bond strenght to paver tile (ANSI A118.4) 28 days	OVER 400 psi

#### APPLICABLE STANDARDS

**FLEXRITE** may be used in installations that conform to ANSI A108.5, A108.12. Detailed information procedures may be found in the TCNA Handbook. Meets shear bond requirements ANSI A118.1, A118.4, A118.11 and meets the requirements for ANSI A118.12.



## INSTALLATION:

### PREPARATORY WORK

All surfaces must be structurally sound, and surfaces between 40° to 90 °F (4° to 32 °C) during installation. Surfaces must be dry and free of all grease, oil, dust, dirt, curing compounds, paint, sealers, coating, efflorescence, old adhesive residue, gypsum based underlayments and any other foreign matter.

### CEMENTITIOUS SUBSTRATES

Cleaning is accomplished by sanding, scraping, or chipping. Smooth-concrete must be roughened. Dampen porous concrete before using **FLEXRITE** mortar. Leave no puddles or standing water and surface deflection that exceed 1/240th of the span.

### PLYWOOD SUBSTRATES

Floor framing shall meet building codes. Bond only to exterior glue plywood only secured with screw-type nails and glued. A gap of 3/16" (5 mm) between all plywood edges to allow for expansion. Leave gaps empty when the installation is complete. All wooden surfaces must be interior use only no water exposure.

### EXPANSION JOINTS

Install expansion joints around all perimeters or restraining surfaces where possible to allow for expansion movement. Never bridge an expansion, contraction, or construction joint. Add additional joints for large areas and areas subject to the sunlight, heat/cold temperatures in accordance with local building codes. See EJ171 in TCNA Handbook for detailed specifications. Remove all thinset mortar, grout and debris from joints before backer rod and sealant are placed.

### MIXING

The correct mixing ratio is 2 gal. (7.6 liters) of **FLEXRITE** Liquid for each 25 lb (11.3 kg) of **FLEXRITE** Powder. Add the liquid to a clean bucket first then add the powder slowly while mixing. Let the mix slake (wait) for 10 minutes. Do not use mechanical mixers at speeds greater than 300 rpm's to avoid entrapment of air. Do not add water, more liquid, powder or any other material to this mix.

### APPLICATION

As Crack Treatment for isolation of shrinkage cracks 1/8" (4 mm) wide or less, first fill the crack with **FLEXRITE** with the flat side of the trowel. Then follow the directions for usage as a dry-set mortar. When used as a crack isolation membrane in limited areas over existing cracks, compress the **FLEXRITE** into the crack. Then with a flat trowel, key the **FLEXRITE** into the adjacent substrate. Next, comb the **FLEXRITE** with a 3/16" x 3/16" (5 mm x 5 mm) V-notched trowel and smooth with the flat side of trowel. Apply the **FLEXRITE** to a minimum of 1/16" (2 mm). Allow to cure 24 hours then use one of Texrite's polymer modified dry-set mortars series such as Porcelain TS or MB, and series Ceramabond, Plus, MB, MB FS or FS. Multipurpose, Ceramaflex, Total Contact and Ceramamix can also be use or more **FLEXRITE** over the **FLEXRITE** as the tile bonding mortar. For crack isolation using either of the above methods, **FLEXRITE** shall be applied over the crack and extending a minimum of the diagonal measurement of the tile to be installed, or 12 inches (30 mm) whichever is greater on both sides of the crack. For cracks greater than 1/8" (4 mm), treat the same as construction joints.

As a Dry-Set Mortar use **FLEXRITE** to bond ceramic tile, stone, slate, and marble directly over acceptable substrates previously described. **FLEXRITE** may also be used over precast or prestressed concrete slabs in high-rise buildings. Mix the **FLEXRITE** as described above and spread a thin layer of mortar with the flat side of the trowel to key mortar into the substrate; then apply additional mortar to a depth sufficient to be notched with a suitable trowel to give 100% contact with the back of the tile and subsequent mortar bed of 3/32" - 3/16" (3-5 mm) after embedding the tile. With high lug tiles, "back buttering" may be required to insure 100% coverage of back of tile. During the setting of tile, it is advisable to occasionally remove a tile to be sure the **FLEXRITE** has not skinned over and sufficient transfer is being made. Do not adjust tiles after they have been set past 20 minutes. Do not abut tile to perimeter walls or restraining surfaces. Leave a minimum spacing of 1/4" (6 mm) void of any setting material or tile, to allow for expansion. When using as a mortar for marble, set several pieces in the **FLEXRITE** and allow it to dry for 16 hours to test for any bleed through or discoloring.

### TROWEL RECOMMENDATION

Suitable for providing a minimum 3/32" - 3/16" (3-5 mm) bed thickness after embedding the tile. Refer to coverage chart for proper trowel size.

### CLEANING:

Water is all that is needed to remove uncured product. Clean as soon as possible while the **FLEXRITE** is fresh, wet paste.

### COVERAGE:

25 sq ft/gallon using a 3/16" X 3/16" "V" notched trowel at 1/16".  
17 sq ft/gallon using a 1/4" X 1/4" square notched trowel at 3/32".

### CURING AND GROUTING:

A minimum cure is obtained in 24 to 48 hours depending on ambient temperatures (ANSI A108.5). Normal grouting should be done 72 hours later.

### STORAGE LIFE:

One year if kept in tightly sealed containers in temperatures from 40-90 °F. Protect from freezing.

**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

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