

# FLEX SET

## MULTIPURPOSE THIN-SET MORTAR

### DESCRIPTION:

Flex Set is a premium grade Latex-Portland Cement Mortar designed for installation of all types of tiles over a variety of substrates. It may be used for either walls or floors in both interior or exterior applications where a Latex-Portland Cement Mortar is required. Re-dispersible powder additives are used to improve adhesion and provide greater bond strength and resistance to impact and shock. These additives allow for some latitude in time, working conditions and temperature. This single component dry-set mortar will reduce cracking when used on substrates subject to limited movement. Flex-Set multipurpose mortar is designed to be used for installations requiring high performance and provides greater coverage with excellent handling characteristics.

### USES:

Flex-Set is to be used as a bond coat for setting semi-vitreous and vitreous ceramic tile for service requirements of both residential and commercial use. Applications include vertical or horizontal use both interior or exterior over properly prepared concrete, cured mortar beds, old cut back adhesive, cementitious backer units, scarified plastic laminates, (APA) exterior grade plywood (interior use only), existing ceramic tile and gypsum board (interior wall use only). Flex-Set may be used over properly prepared vinyl composition flooring (interior use only) excluding cushioned flooring.

### LIMITATIONS:

Flex-Set Multipurpose Thin-Set Mortar is limited to interior use over exterior grade plywood. Do not add any latex admixtures to this product. Do not use over gypsum-based underlayments, metal, glass, plastic, luan plywood, cement asbestos board, particle board, and asphalt sheeting. Some green, red and black marbles may warp when installed with dry-set mortars containing water. Use SGM Ultra 100, 100% solids epoxy mortar.

### CHARACTERISTICS:

Increased Coverage & Flexibility  
Superior Handling  
Resist Sagging  
Excellent Adjustability

### PREPARATION:

All surfaces must be dry, structurally sound and free of any wax, oil, dust or paint overspray, curing compounds, sealers, coatings, efflorescence, old adhesive residue, gypsum-based underlayments or any other foreign matter. Hence, some cleaning may be accomplished utilizing SGM Safe Clean Crystals, refer to Safe Clean label directions. Remove all liquid curing agents and bond breakers. All materials and areas to be tiled should remain above 40 degrees F 24 hours prior and 72 hours after installation.

### PLYWOOD SUBSTRATES:

1. All wooden flooring should be designed and engineered so that the floors maximum deflection under normal or full load does not exceed 1/360 of span. A 3/16" gap shall be left around all vertical abutments, also a 3/16" gap shall be left between sheets of wood to allow for expansion. Do not fill these gaps during installation. All wooden surfaces should be for interior use only and protected from exposure to water.

**CEMENTITIOUS SUBSTRATES:**

1. All floors should be 28 days cured and free of moisture and efflorescence. Smooth steel troweled floors should be roughened up via mechanical chipping, sanding, shot blasting or scraping. Remove all curing agents and sealers. Dampen porous or dry concrete. Do not leave any puddles or standing water. Expansion joints shall be installed in accordance to local building codes. See EJ171-2K (TCA Handbook) for details.

**MIXING:**

Flex-Set powder should be added to cool, clean potable water (Approximately 1-1/2 gallons per 50 lbs.) add dry mortar to make a smooth paste-like trowelable mix. Mix thoroughly, allow mortar to slake for 10-15 minutes, then re-mix. If a mechanical mixer is to be used, it must be done at a low RPM (300) or less to avoid entrapping air. Do not add additional water after slaking of mortar to the mix. Stir occasionally during use. Do not add latex liquids to this product.

**APPLICATION:**

Apply the mortar liberally with the flat side of trowel. Use sufficient pressure to work mortar in good contact. Then comb with notched edge of trowel to leave uniform edges. Place tile while surface is wet and tacky. Spread only as much mortar as can be covered in 15-20 minutes or before surface dries. Place tiles with a twisting motion and beat lightly before initial set takes place to fully imbed in the mortar. Mortar that has formed skin should be re-troweled before applying tile. Use proper sized notched trowel (see diagram) to ensure 100% coverage of mortar to tiles and substrate. Some irregular tiles require back buttering. Industry standards require approximately 3/32" to 3/16" mortar bed thickness after beat in. Lift tiles occasionally during installation to make sure that the mortar has not skinned over and check for transfer to back of tile.

**CURING AND GROUTING:**

A minimum cure is reached in 12-24 hours, depending on the ambient temperature, substrate and tile of tile being used. Grouting can be done before the mortar takes it final set. Be careful not to break bond of the mortar while still uncured. When using Flex-Set in any area that will be wet continually (shower receptors, swimming pools, etc.) allow mortar to cure a minimum of 14 days prior to any exposure containing water. Normal grouting should be done 48 hours after thin bed method. Use SGM Security Polymer Grout.

**COVERAGE:**

Setting requirements (sq.ft.)

Trowel size	<u>1/4"x1/4'</u>	<u>1/4"x3/8"</u>	<u>1/2"x1/2"</u>
50lb bag	75	65	40

**SPECIFICATIONS:**

Meets ANSI 118.11 EGP Latex-Portland Cement Mortar. Follow ANSI A 108.5 for installation.

**CLEAN UP:**

Water is all that is needed to clean un-cured mortar..

**SGM**

**Pompano Beach, FL – Dallas, TX – Corona, CA – Plant City, FL**

Phone: 800.641.9247

1502 SW 2<sup>nd</sup> Place, Pompano Beach, FL 33069

FAX: 954.943-2402

www.sgm.cc