

THIN SET

Dry Set Mortar

TILE SETTING WALLS AND FLOORS

MANUFACTURER:

Empire Blended Products, Inc.
250 Hickory Lane • Bayville, NJ 08721
(732) 269-4949 • Fax (732) 269-0497

PRODUCT DESCRIPTION:

THIN SET is a cement based formulation with graded aggregates and modifiers combined to achieve a high performance setting mortar for all ceramic tiles and vitreous clay products.

USES:

- Walls or floors
- Interior or exterior

ADVANTAGES:

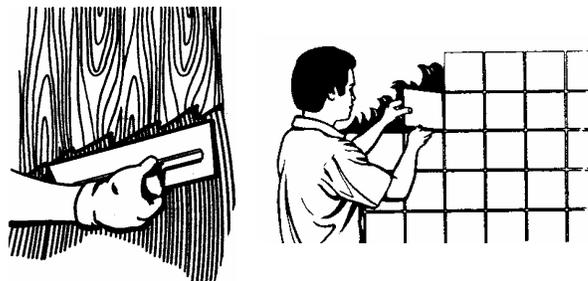
- Bonds to gypsum board and reinforced cement board
- Bonds to structurally sound concrete and masonry
- Accepts absorbent and non-absorbent tiles
- Requires no presoaking of tiles
- Non-staining, water washable
- Highly water resistant
- Resists vibration and thermal shock
- Highly impact resistant
- Non-flammable

INSTALLATION:

Surface Preparation:

All surfaces must be structurally sound, dry, and free of grease, oil, dirt, dust, curing compounds, sealers, coatings or any other foreign matter. Roughen all smooth, steel troweled concrete floors to ensure good bonding. Dampen the surface, taking care not to leave any puddles or standing water.

Coverage:



Mixing:

Add clean water and EMPIRE BLENDED EM-CRYL 600 to a suitable clean container for mixing. The use of EM-CRYL 600 is recommended to ensure increased adhesion, added strength and reduced shrinkage (see label for suggested mixing proportions). Add *THIN SET* and blend to a thick lump-free mortar consistency.

The proper consistency is such that when applied with a notched trowel the ridges formed will not flow or slump. If using a drill mixer, use a low speed, high torque drill not to exceed 600 RPM, fitted with a suitable mixing blade so as not to entrap air in the mix. Allow the mix to stand for 10-15 minutes, then remix before use. Mix occasionally during use.

Placement:

Apply *THIN SET* with the flat side of trowel, then notch with a suitable notched trowel. Leave only enough *THIN SET* to give 100% contact with the back of the tile and a mortar bed of $\frac{3}{16}$ " to $\frac{1}{2}$ ". Remix *THIN SET* occasionally during application, but do not apply *THIN SET* that has begun to set. Clean tools with fresh water immediately after use.

Do not adjust tiles after they have been placed for 10 to 15 minutes. Allow material to cure at least 24 hours before grouting.

Curing:

THIN SET is self-curing.

When applied with a $\frac{1}{4}$ " x $\frac{1}{4}$ " notched trowel, one 50 pound bag of *THIN SET* will cover

approximately 75 square feet of surface.

Packaging:

Available in 25 pound 50 pound multiwall paper bags with moisture barrier.

Colors:

Available in white and gray.

TECHNICAL DATA:

ShearBond Strength (ANSI A118.1)	
Vitreous Tile	
28 days	250 psi
Non-Vitreous Tile	
28 days	600 psi
ShearBond Strength to Plywood	
28 days	275 psi
Compressive Strength	
7 days	2,900 psi
28 days	4,000 psi

THIN SET exceeds ANSI 118.1 when mixed with water and ANSI 118.4 when mixed with EM-CRYL 600.

LIMITATIONS:

Do not apply over wood, asphalt sheeting, vinyl covered wallboard, metal, glass or plaster. Do not apply over frozen or frost laden substrates. Temperature should be above 40°F for a minimum of 72 hours after application.

CAUTION:

Contains Portland Cement CAS #65997-15-1. Freshly mixed cement products may cause skin injury. Avoid contact with skin where possible and wash exposed areas promptly with water. If any product gets into the eye, rinse immediately and repeatedly with water. If ingested, **do not** induce vomiting and get prompt medical attention. Also contains Sand CAS #14808-60-7. Avoid breathing dust. Prolonged exposure to dust may cause delayed lung injury (silicosis) or cancer IARC Class 2A. Wear NIOSH approved mask for silica dust. **Keep Out Of Reach Of Children.**

WARRANTY:

Due to the use of this product beyond our control, we assume no liability for damages of any kind, and the user accepts the product "as is" and without warranties, expressed or implied, from either Empire Blended Products or its agents. The suitability of the product for an intended use shall be solely up to the user. Our only obligation shall be to replace or pay for any material proved defective, with our liability limited to the purchase price of materials supplied by us.