

# MULTI-PURPOSE THIN SET

Dry Set Mortar  
For Plywood

## MANUFACTURER:

Empire Blended Products, Inc.  
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## PRODUCT DESCRIPTION:

*MULTI-PURPOSE THIN SET* is a single component, polymer modified, Portland Cement based formulation with graded aggregates and modifiers, designed to be a high performance setting mortar for use over plywood. It is ideal for all ceramic tiles, vitreous and non-vitreous tile, quarry tile, marble and granite.

## USES:

- Walls, floors and ceilings
- Interior or exterior
- Above or below grade
- Direct application over plywood

## ADVANTAGES:

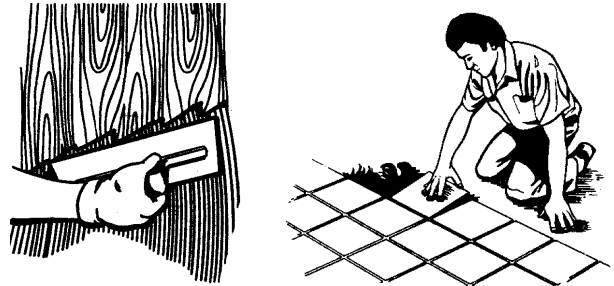
- One component, add water only
- High bond and flexural strength
- Use over any structurally sound substrate, including plywood, gypsum board, reinforced cement board and ceramic tile
- Water resistant and frost proof
- Non-staining, water washable
- Highly impact resistant
- Non-flammable

## 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 apply *MULTI-PURPOSE THIN SET* that has

## TILE SETTING OVER PLYWOOD



floors to ensure good bonding. Ceramic tile substrates should be abraded to ensure proper bonding. When application is over plywood, ensure that substrate is exterior grade, and well fastened in compliance with current ANSI specifications. A gap of  $\frac{1}{8}$ " wide should be left between sheets of plywood and these gaps should be filled with *MULTI-PURPOSE THIN SET* and taped with fiberglass tape imbedded in *MULTI-PURPOSE THIN SET*. Dampen the surface, taking care not to leave any puddles or standing water.

### Mixing:

Add *MULTI-PURPOSE THIN SET* to clean water and mix 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 *MULTI-PURPOSE THIN SET* with the flat side of trowel, then notch with a suitable notched trowel. Leave only enough *MULTI-PURPOSE 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 *MULTI-PURPOSE THIN SET* occasionally during application, but do not

begin to set. Clean tools with fresh water

immediately after use. Do not adjust tiles after they have been placed for 10 to 15 minutes.

**Curing:**

*MULTI-PURPOSE THIN SET* is self-curing.

**Coverage:**

When applied with a 1/4" x 1/4" notched trowel, one 50 pound bag of *MULTI-PURPOSE THIN SET* will cover approximately 75 square feet of surface.

**Packaging:**

Available in 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 .....	450 psi
Non-Vitreous Tile	
28 days .....	850 psi
ShearBond Strength to Plywood	
28 days .....	500 psi
Compressive Strength	
7 days .....	2900 psi
28 days .....	4000 psi

*MULTI-PURPOSE THIN SET* exceeds ANSI 118.4 when mixed with water.

***LIMITATIONS:***

Do not apply over masonite, chipboard, flakeboard, particle board or similarly unstable substrates. Do not use over metal or glass. 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.