

# CONCRETE MIX 4,000 PSI PLUS

Pre-Blended Commercial Grade Concrete

CONCRETE

STRUCTURAL

## MANUFACTURER:

Empire Blended Products, Inc.  
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## PRODUCT DESCRIPTION:

*CONCRETE MIX 4000 PSI PLUS* is a single component product, consisting of Portland Cement (ASTM C-150, Type 1A), finely graded sand (ASTM C-33) and sized natural gravel (ASTM C-33), scientifically blended to a uniform mixture and packaged at our manufacturing facility in Bayville, New Jersey. *CONCRETE MIX 4000 PSI PLUS* meets and exceeds the requirements of ASTM C-387, latest revision, and Federal Quality Standard USCE CRD-C-74.

## USES:

- ▶ For concrete 2" thick or more
- ▶ Footings
- ▶ Foundations
- ▶ Walls and floors
- ▶ Walks and patios
- ▶ Steps and platforms
- ▶ Driveways
- ▶ Poles and stanchions
- ▶ Curbs, Stairs and Ramps

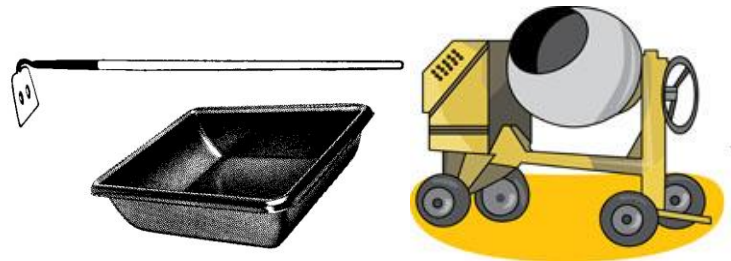
## ADVANTAGES

- ▶ Ready to use, just add water
- ▶ Eliminates dry mixing of multiple ingredients
- ▶ Plant blended, quality controlled mix design
- ▶ Meets requirements of ASTM C-387

## INSTALLATION:

### Surface Preparation:

Prepare any necessary forms or holes to be filled prior to mixing. When applying over old concrete, be sure the base concrete is clean and free of dirt, dust, oils or paints that will inhibit bond. The use of EMPIRE BLENDED EM-BOND C is recommended where increased bond is desired.



### Mixing:

Place material in a clean, suitable container (bucket, mixing box, wheelbarrow or power mixer). For each 20 pounds of dry material use approximately 1 quart of water. Add  $\frac{3}{4}$  of the mixing water and blend together. Mix until all liquid is absorbed. This will be a very stiff mix and will allow the addition of more liquid to the mix without over-watering. Add the balance of liquid required to achieve a fully wetted mix with the proper slump. Do not over-water. Exact amount of water will vary depending on desired slump and consistency.

### Placement:

After placing *CONCRETE MIX 4000 PSI PLUS*, puddle the mix with a stick or rod to eliminate any voids in the material. Level the work with a straight edge. After leveling, allow concrete to set until all bleed water has evaporated before troweling. Choice of tool used in finishing is determined by the finish desired. A mason's brush or broom pulled across the top after floating or troweling will provide a slip resistant surface. To form a smooth edge, use a steel edging tool.

### Curing:

Allow newly placed concrete to set firmly, then keep moist for 3 days by covering with damp burlap and fogging with water.

### Coverage:

An 80 pound bag will yield approximately  $\frac{2}{3}$  (0.66) cubic foot. Each 10 pounds of material yields approximately 1 square foot, 1" thick (1' x 1' x 1").

**Packaging:**

Available in 40 pound, 55 pound and 80 pound multi-ply, recyclable paper bags.

**Color:**

Cement gray. EMPIRE BLENDED RAINBOW CEMENT COLORS may be added to achieve a colored finish, at the rate of 1 pound per 80 pound bag.

**TECHNICAL DATA:**

Meets or exceeds the requirements of ASTM C-387

Compressive Strength (ASTM C-39):

4 x 8 Cylinders

3 Days .....2,190 psi

7 Days .....3,280 psi

28 Days .....4,420 psi

Slump (ASTM C-143) .....3.00"

Air Content (ASTM C-231) .....3.5%\*

The contents of this bag when mixed with potable water consistent to achieve a 3 inch slump @ 45° F and kept moist while curing will attain a compressive strength of 4,000 psi in 28 days.

The temperature of concrete when placed should not exceed 85° F. Concrete should not be re-tempered at any time.

\* Air shown is for lab samples mixed by hand. When materials are machine mixed, you should expect air content of 6% ± 1½ %.

**LIMITATIONS:**

Do not apply to frozen surfaces or if temperature will fall below 40°F within 24 hours.

**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 IARU 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.