

SURFACE BONDING CEMENT

Dry Stack Block Construction

MANUFACTURER:

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PRODUCT DESCRIPTION:

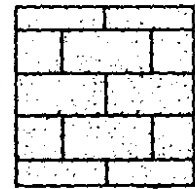
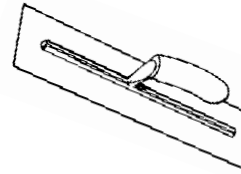
SURFACE BONDING CEMENT is a high density, waterproof, trowel applied coating composed of Portland Cement, finely graded aggregates, modifiers and construction grade fibers. The fiber reinforcement allows concrete masonry units to be dry stacked, eliminating the need for mortar joints. *SURFACE BONDING CEMENT* is also used as a decorative finish over existing brick, block or poured concrete walls. Its high impact resistance and waterproofing qualities make it an ideal surface crack resistant finish and base coat for applications over rigid insulation board and exterior insulation systems.

USES:

- ▶ Structural coating for dry stacked block construction
- ▶ Base coat for stuccos and other finishes
- ▶ Insulation board coating
- ▶ Load bearing and non-load bearing walls
- ▶ Retaining walls
- ▶ Foundation and basement walls
- ▶ Material bin walls
- ▶ Exterior or interior applications

ADVANTAGES:

- ▶ Eliminates mortar joints
- ▶ Reduces construction time
- ▶ Lowers labor costs
- ▶ Waterproofs and seals
- ▶ Increases fire rating of wall system
- ▶ Increases tensile and flexural strength
- ▶ High density coating



INSTALLATION:

Surface Preparation:

Surfaces to be coated must be structurally sound, and clean and free of dust, dirt, oils, paint and all other contaminants that would inhibit bond. Any acid based cleaning solutions must be neutralized. Dampen surfaces to be treated and maintain dampness ahead of installation.

Mixing:

For each bag of material, add 6 quarts of water to a clean mixer or suitable container. (For increased adhesion, use 2 quarts of EMPIRE BLENDED EM-CRYL 600 and 1 gallon of water for each bag. Blend EM-CRYL 600 with water before mixing in dry material.) Add dry material. Mix to a lump-free consistency suitable for the application, approximately 2-3 minutes, remix and apply.

Placement: **Dry Stack Block Construction**

Dry stack block construction utilizes standard construction procedures. Lay the first course of concrete or lightweight blocks conventionally so that the wall will start plumb and level. Use *SURFACE BONDING CEMENT* as the mortar for this first course. Cut the joints flush and allow them to set for 24 hours. Dry stack clean, new block in a running bond pattern for maximum strength unless otherwise specified. To remove any burrs or irregularities, scrape the blocks across each other, being careful to keep the stacked blocks level and plumb. Apply *SURFACE BONDING CEMENT* with a smooth steel trowel to both sides of the dry stacked wall to a minimum thickness of 1/8".

Placement: Insulation Board Coating

When used as an insulation board coating, first roughen surface with a wire brush and then tape all joints with fiberglass mesh tape. Mix each bag of *SURFACE BONDING CEMENT* with 1 gallon of EM-CRYL 600 and 2 quarts of water. Apply material to insulation board with a steel trowel following the specific insulation system specifications.

Placement: Decorative Masonry Coating

Mix each bag of *SURFACE BONDING CEMENT* with 2 quarts of EM-CRYL 600 and 1 gallon of water. Apply material to wall with a steel trowel with a minimum thickness of 1/8" and finish as desired.

Curing:

If EM-CRYL 600 is used in the mix no curing is necessary. Otherwise, mist the surface with water after application.

Coverage:

One bag will cover approximately 45 square feet at 1/8" thick.

Packaging:

Available in 50 pound multiwall paper bags with moisture barrier.

Colors:

Available in white and gray. *SURFACE BONDING CEMENT* can be blended with *RAINBOW CEMENT COLORS* to achieve a wide variety of colors.

TECHNICAL DATA:

SURFACE BONDING CEMENT meets ICBO, BOCA and SBCCI allowable design stresses.

Compressive Strength (ASTM C-109)	
7 day.	3600 psi
28 day.	6100 psi
Flexural Strength (ASTM C-348)	
7 day.	900 psi
28 day.	1100 psi
Water Resistance (ASTM E-514)	
Rating	Excellent

LIMITATIONS:

Do not apply over frozen surfaces. Do not apply if temperature will fall below 40°F within 24 hours. Do not add any other additive other than suggested herein. Protect from precipitation for at least 12 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 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.