

# SURFACE BONDING CEMENT

**A FIBER-REINFORCED, POLYMER-MODIFIED WATERPROOF COATING APPLIED BY TROWEL OVER DRY-STACKED BLOCK, RIGID INSULATION BOARD & MASONRY**

**SURFACE BONDING CEMENT** is a cement-based, polymer-modified, fiber-reinforced, waterproof coating designed to be applied by trowel over dry-stacked block, rigid insulation board, masonry and concrete surfaces.

Surface Bonding Cement's high impact resistance and waterproofing qualities make it an ideal surface crack resistant finish and basecoat. When applied over dry-stacked concrete masonry units, Surface Bonding Cement eliminates the need for mortar joints.

## USES and ADVANTAGES

- Structural coating for dry-stacked block construction.
- May be applied over rigid insulation board.
- Basecoat for stuccos and other finishes.
- Load bearing and non-load bearing walls.
- Retaining walls.
- Foundation and basement walls.
- High impact resistance.
- Waterproofs and seals.
- Increases tensile and flexural strength.
- Increases fire rating of wall system.
- Exterior or interior applications.
- Meets ICBO, BOCA and SBCCI allowable design stresses.

## SURFACE PREPARATION

Surfaces to be coated must be sound and clean. Remove all dirt, dust, spalling or loose concrete, oil, grease, wax, mildew, efflorescence, curing compounds, form release agents, paint or any other foreign material which might effect the bond. **SEE WARNING ON BACK PAGE REGARDING PAINT**

**REMOVAL.** Any acid based cleaning solutions must be neutralized.

**If after cleaning, the surface is extremely dusty, porous or if there is any question of bonding, prime the area with Bond All Exterior.**

If Bond All Exterior is not used as a primer, dampen surfaces to be coated with water and maintain dampness ahead of installation.

### Dry-Stacked Block

Dry-stack block construction utilizes standard construction procedures. Lay the first course of concrete block conventionally (using Surface Bonding Cement) so that the wall will start level and plumb. Cut the joints flush and allow them to set for 24 hours. Then dry-stack clean, new block in a running bond pattern for maximum strength unless otherwise specified. Remove any burrs or irregularities being careful to keep the stacked blocks level and plumb.

### Rigid Insulation Board

Roughen the surface with a wire brush and then tape all joints with fiberglass mesh. **Rigid insulation board must be primed with Bond All Exterior.**

**Always perform a spot test (of sufficient size) prior to application in order to ensure compatibility between Surface Bonding Cement and the substrate as well as to confirm that the appearance and performance are acceptable.**

## MIXING

Using a clean container, add 6 quarts of water. Slowly add a 50 lb. bag of Surface Bonding Cement and mix to a lump free mortar like consistency for approximately 2-3 minutes. Allow the

mixture to sit for five minutes then remix before applying. **When applying over rigid insulation board (or for any other application in which improved adhesion is desired) mix each 50 lb. bag of Surface Bonding Cement with 4 quarts of Add Mix-21 and 2 quarts of water.**

**As with any Portland cement based material, mixing liquid should be kept to a minimum to avoid decreasing strength and adhesive properties.**

## APPLICATION

### Dry-Stacked Block

Apply a thin coat of Surface Bonding Cement (with a flat steel trowel) over the block then immediately double back applying the Surface Bonding Cement to the desired thickness. Apply Surface Bonding Cement to both sides of the wall with a minimum thickness of 1/8" up to a maximum thickness of 3/8".

### Rigid Insulation Board

Using a flat steel trowel, apply a thin coat of Surface Bonding Cement over the properly prepared rigid insulation board then immediately double back applying the Surface Bonding Cement to the desired thickness. Apply Surface Bonding Cement with a minimum thickness of 1/8" up to a maximum thickness of 3/8".

### Masonry and Concrete

Apply a thin coat of Surface Bonding Cement (with a flat steel trowel) over the masonry or concrete then immediately double back applying the Surface Bonding Cement to the desired thickness. Apply Surface Bonding Cement with a minimum thickness of 1/8" up to a maximum thickness of 3/8".



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## **CURING**

If Add Mix-21 is used in the mix, no curing is necessary. Otherwise, mist the surface with water after application for a minimum of 8 hours.

## **COVERAGE**

Per each 50 lb bag of Surface Bonding Cement:

1/8".....50 square feet  
1/4".....25 square feet

## **SPECIAL PRECAUTIONS**

- Surface Bonding Cement should be applied when the ambient and surface temperatures are at least 50 degrees F or above and will remain so for at least 48 hours.
- Protect from direct sunlight and/or high winds during application, finishing and curing.
- Protect finished work from precipitation for at least 48 hours after application.
- All control and expansion joints must be carried through the Surface Bonding Cement.
- Do not apply directly over plywood.
- Do not add any additives (including accelerating admixtures) other than suggested herein.
- Clean all tools and mixing containers with water during and immediately after use.

## **WARNING!**

Do not take internally. Contains Portland cement and Silica sand. May be irritating to the eyes and nose. Prolonged inhalation may cause lung injury. Avoid eye contact or prolonged contact with skin. Wash hands thoroughly with water after handling. In case of eye contact, flush with plenty of water for at least fifteen minutes. If irritation persists, consult a physician immediately. Dust masks, eye protection and gloves are recommended when using this product. Read Material Safety Data Sheet (MSDS) before using this product which may be obtained from your retailer or by calling 978-453-8881.

24 Hour Emergency Medical/Spill Information (Chemtrec): 800-424-9300

## **KEEP OUT OF THE REACH OF CHILDREN!**

**WARNING!** If you scrape, sand or remove old paint, you may release lead dust or fumes. **LEAD IS TOXIC. EXPOSURE TO LEAD DUST OR FUMES CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE.**

Before you start, find out how to protect yourself and your family by contacting the USEPA National Lead Information Hotline at 1-800-424-LEAD or log onto [www.epa.gov/lead](http://www.epa.gov/lead). Wear a properly fitted respirator and prevent skin contact to control lead exposure. Clean up carefully with a HEPA vacuum and a wet mop. Follow these instructions to control exposure to other hazardous substances that may be released during surface preparation.

For technical assistance call  
978-453-8881

[www.umaco.com](http://www.umaco.com)

## **LIMITED WARRANTY**

*The manufacturer guarantees its products to be free of defects and the extent of its liability is limited to the purchase price of the materials only, if proved to be defective. Improper mixing, incorrect application or other factors beyond the control of the manufacturer or its dealers may produce unsatisfactory results and cannot be held to be the manufacturers or its dealers responsibility. There are no other guarantees either expressed or implied.*

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- Concrete Patching and Repair Products
- Masonry Waterproofing Products
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