

# U-TROWEL

# 1B

## A CEMENT-BASED, WATERPROOF STUCCO DESIGNED TO BE APPLIED BY TROWEL OVER VERTICAL CONCRETE AND MASONRY SURFACES

**U-TROWEL** is a cement-based, waterproof, stucco which when mixed with water and Umaco Add Mix-35 may be applied by steel trowel in a variety of textures to protect and decorate all types of vertical masonry and concrete surfaces.

### USES and ADVANTAGES

- One trowel coat application over all types of properly prepared vertical masonry and concrete surfaces.
- May be applied as a finish coat over U-Trowel Basecoat when applied over properly fastened galvanized wire lath (2.5 lb or heavier).
- May be applied directly over properly prepared cement board.
- Eliminates costly rubbing and grinding of poured concrete.
- Available in white or gray straight from the bag.
- Add Mix-35 Colors may be added (in lieu of Add Mix-35) in order to achieve a variety of colors. See Add Mix-35 Colors data sheet for full information.
- Waterproof to wind driven rain.
- An excellent coating for swimming pools, basins, fountains and other emersion applications.
- Environmentally safe.
- Produces a high density and high compressive strength finish.
- Superior resistance to UV light.
- A wide variety of finishes may be obtained from a heavy deep Spanish texture to a smooth sand float finish.
- May be top coated with Umaco Elastoflex (an elastomeric coating) in a variety of colors.

### SURFACE PREPARATION

#### Masonry and Concrete Surfaces:

All surfaces must be structurally 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.** A dry removal method such as a sand or shot blasting procedure will ensure a proper surface preparation. Wet cleaning may also be used. If the size of the job does not justify the costs of such equipment, all preparations may be accomplished manually. All oil and grease must be scrubbed with a de-greasing compound, rinsed thoroughly then allowed to dry.

Efflorescence must be washed with a mild solution of muriatic acid and water, rinsed thoroughly then allowed to dry. **If after cleaning, the surface is extremely dusty, porous or if there is any question of bonding, or if applying over cement board, prime the area with Bond All Exterior.**

Large holes, cracks and voids must be filled using Umaco U-Patch (or equivalent). Any rusted or corroded exposed metal should be wire brushed or sand blasted to remove all rust and loose materials. Apply a slurry coat of Umaco U-Patch (or equivalent) and Add Mix-35 to all exposed metal surfaces.

#### Masonry Units

Differential suction between concrete masonry units (blocks or bricks) and the mortar joints may cause "photographing or ghosting" of the joint patterns after periods of rain. To ensure even absorption of U-Trowel, apply a coat of Umaco Transeal to all block and brick surfaces. Allow Transeal to completely dry at

least 24 hours before applying U-Trowel.

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

### CONTROL JOINTS

Install control or expansion joints as per ASTM C-1063 which requires in part that panels contain 200 square feet or less of surface area with no dimension greater than 20 feet in either direction or a length ratio of 2.5 to 1. Installation of stucco panels within the confines of ASTM C-1063 reduces the chances of shrinkage cracking and allows the entire panel to be stuccoed continuously with no overlaps or cold joints. Additional factors and structural considerations may dictate a more conservative placement of control joints. Expansion joints are also necessary when two dissimilar substrates come together such as poured concrete and block.

### MIXING

Using a clean container or cement mixer, add one quart of Umaco Add Mix-35 and approximately three quarts of clean water. Add one 50 lb bag of U-Trowel and mix to a mortar like consistency for approximately four to five minutes or until entirely blended. Allow mixture to soak, remix and then apply by steel trowel. Mix only as much material that can be applied within approximately 1/2 hour. Do not retemper. **As with any cement-based material, mixing liquid should be kept to a minimum to avoid decreasing strength and adhesive properties.**



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## **APPLICATION**

If the surface being coated is hot or dry or if the application is made on a windy day, uniformly dampen the surface with clean water. Apply a thin coat of U-Trowel with a steel trowel over the entire area within the expansion joints or within the area being worked, firmly pressing the material into all voids and pores. Immediately double back and apply a second coat to produce a level surface a minimum of 1/16" to a maximum of 1/4". Finish the entire panel or work area in one application with no overlaps or cold joints. After the material firms, additional coats of U-Trowel may be applied to obtain the desired thickness. When U-Trowel sets and will not lift, float or finish to obtain the desired texture. Sponge float, sea sponge, stipple, Spanish swirl and Tudor are a few of the finishes obtainable with U-Trowel. U-Trowel may also be spray applied. Please consult with a Umaco representative for further information regarding spraying.

## **COVERAGE**

Per each 50 lb bag of U-Trowel mixed with Add Mix-35 and water:

<u>Average Depth</u>	<u>Coverage</u>
1/8".....	50 square feet
1/4".....	25 square feet

## **SPECIAL INFORMATION**

U-Trowel like other natural materials such as stone, slate and wood has color and texture variations. Variations in color are due to method of application, job conditions, weather conditions, thickness and texture of the finish coat. Curing conditions will determine the uniformity of color and potential for cracking.

**Follow these procedures to ensure a minimization of color variations:**

1. Do not apply if ambient or surface temperatures are below 50 degrees F or are expected to fall below that within 48 hours.
2. Do not apply over extremely wet

- surfaces. Allow surface to dry out before applying.
3. Do not apply immediately before rain is expected.
4. Areas to be coated should be dampened uniformly before applying.
5. Avoid working on hot surfaces or in direct sunlight.
6. Make sure the same amount of water and Add Mix-35 are added to each batch.
7. All workers must use the same type of float and the same finishing technique.
8. Before finish floating, wet float with clean water then shake out all excess water so that the float is only damp. Excess water will cause color variations.
9. Finish the entire panel or working area at one time leaving no overlaps or cold joints.
10. Keep applied coat protected from rain and frost until thoroughly set and dry.
11. To ensure a uniform color throughout, apply a topcoat of Umaco Elastoflex which is available in a variety of colors.

**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.

## **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!**

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
- Acrylic Admixtures and Bonding Agents



- Decorative Masonry and Concrete Coatings
- Traditional and Synthetic Stucco Systems
- Flooring Underlayments and Resurfacers