

# U-TROWEL

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

**U-TROWEL** is a traditional stucco which consists of Portland cement, select aggregates and special additives which are designed to enhance waterproofing properties, adhesive bond as well as compressive, tensile and flexural strengths. U-Trowel may be applied (by trowel) in a wide variety of textures over properly prepared vertical substrates including concrete, masonry, cement board and exterior-grade plywood sheathing. U-Trowel needs to be mixed with Add Mix-35, an acrylic liquid additive. Available in White or Gray.

### USES and ADVANTAGES

- One trowel-coat application over properly prepared vertical concrete and masonry surfaces which are relatively smooth and even.
- A wide variety of stucco finishes may be obtained from a heavy deep Spanish texture to a smooth sand float finish.
- Produces a durable finish.
- Eliminates costly rubbing and grinding of poured concrete.
- May be used for swimming pools, basins, fountains and other emersion applications.
- Color may be obtained by adding an Add Mix-35 Color to the mix.

### SURFACE PREPARATION

#### **Concrete and Masonry**

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

voids must be filled using Umaco U-Patch, VHO Patch or equivalent. 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 Clear to all block and brick surfaces then allow to dry for at least 24 hours before applying U-Trowel. When using Transeal Clear, do not first apply Bond All Exterior.

#### **Cement Board**

Install weep screed at base of exterior-grade plywood sheathing. Plywood sheathing (which cement board will be applied over) should then be covered with two layers of a water resistant building paper in order to reduce the possibility of water contacting the sheathing. Apply the building paper horizontally with the upper layer lapped over the lower layer not less than two inches. Where vertical joints occur, the building paper shall be lapped not less than six inches. Make sure that the water resistant building paper overlaps the nailing flange of the weep screed. Control joints and casing beads should then be attached. Properly fasten the cement board following the manufacturer's instructions. Make sure that the cement board overlaps the nailing flange of the weep screed, control joints and casing beads. Recess heads of fasteners then strike flush with Umaco Styrocoat. Corner beads may then be installed. **Make sure that the cement board is clean and free of dust, then prime with Bond All Exterior.** Using alkaline resistant tape, cover all joints then apply Styrocoat making sure that the tape is embedded. Allow Styrocoat to cure at least 24

hours before applying U-Trowel.

#### **Exterior-Grade Plywood Sheathing**

U-Trowel may be applied over exterior-grade plywood sheathing which has been covered with two layers of a water resistant building paper and self-furring, galvanized metal lath (diamond mesh) which has been embedded in Umaco U-Trowel Basecoat. Read U-Trowel Basecoat data sheet for full instructions.

### CONTROL JOINTS & PANEL DIMENSIONS

The location of control joints and other accessories should be determined by the designer or architect. Placement of control joints should be selected to correspond with lines of anticipated potential building movement such as at the corners of openings in the stucco which includes vents, windows, doors, etc.. As per ASTM C-1063, panels should contain 144 square feet or less of surface area with no dimension greater than 18 feet in either direction or a length ratio of 2-1/2 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. Any existing control joints in the masonry must be carried through the finish. Control joints are also necessary when two dissimilar substrates come together such as poured concrete and block.

### MIXING

Using a clean container or mortar mixer, add one quart of Umaco Add Mix-35 and three quarts of clean water. Slowly 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 4-5 minutes, remix and then apply.



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Mix only as much material that can be applied within approximately 1/2 hour. Do not retemper.

#### **Add Mix-35 Colors**

When using an Add Mix-35 Color, make sure that all pigment is removed from the bottle. Refer to Add Mix-35 Colors data sheet for full instructions.

#### **APPLICATION**

Concrete and masonry surfaces to be coated should be dampened uniformly with clean water before applying U-Trowel unless previously coated with Bond All Exterior or Transeal Clear. Apply a thin coat of U-Trowel with a stainless steel trowel over the entire area within the control 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 from a minimum of 1/8" 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.

#### **CURING**

Although U-Trowel (when mixed with Add Mix-35) is self curing, keep the finished surface moist to prevent a quick dry out when working in direct sunlight, wind or over very porous surfaces. Generally, uniformly fogging the surface with water (after it has hardened) at the start and again at the end of the work-day will suffice. If the relative humidity is high (more than 70%), the frequency of moistening the surface may be reduced. Fogging colored stucco before hardening is a common cause of color variations and should be avoided until after the surface has hardened.

#### **CAULKING**

After U-Trowel has been applied and allowed to harden, apply sealant (Umaco ES Caulk) to control joints, around doors, windows, fixtures and pipes.

#### **COVERAGE**

Approximate coverage per each 50 lb bag of U-Trowel:

<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, thickness and texture of the finish coat. Curing conditions will also play a part in determining the uniformity of color and potential for cracking. Ultimately, it's the applicator's skill in manipulating the fresh mix that determines the look of the finish.

#### **Follow these procedures to help minimize color variations:**

- Only apply when the ambient and surface temperatures are 50 degrees F or above and will remain so for a minimum of 48 hours.
- Avoid applying U-Trowel when the temperature is 85 degrees F or above.
- Do not apply if rain or any other precipitation is expected within 48 hours after application.
- Keep applied coat protected from precipitation and frost until thoroughly set and dry.
- Avoid working on hot surfaces in direct sunlight.
- Hot or very dry surfaces must be saturated with clean water (then allowed to dry until slightly damp) before applying U-Trowel unless previously coated with Bond All Exterior or Transeal Clear.
- Make sure that the same amount of water and Add Mix-35 are added to each batch.
- All applicators must use the same type of float and finishing technique.
- Before finish floating, wet float with clean water then shake out all excess water so that the float is only damp.
- Finish the entire panel or working area at one time leaving no

overlaps or cold joints.

- Mixers and containers must be thoroughly clean.
- Good quality and appropriate tools and equipment that are clean, free of warping, and without excessive wear are necessary to do a good stucco job.
- An alternative to adding color pigment (Add Mix-35 Colors) to the mix, would be to coat the hardened stucco with Umaco Elastoflex which is available in a wide variety of colors.

#### **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.*

**03-01-08**

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