

# U-TROWEL BASECOAT

**A FIBER-REINFORCED BASECOAT APPLIED OVER CONCRETE, MASONRY AND PROPERLY PREPARED EXTERIOR GRADE PLYWOOD.**

**UT BASECOAT** is a blend of Portland cement, select aggregates and alkaline resistant fibers designed to be used as a basecoat for Umaco U-Trowel and Umaco Finish-Coat. UT Basecoat may be applied (by trowel) over properly prepared concrete, masonry and exterior-grade plywood sheathing. UT Basecoat needs to be mixed with Add Mix-35, an acrylic liquid additive.

## **USES and ADVANTAGES**

- A basecoat for Umaco U-Trowel and Umaco Finish-Coat when applied over properly prepared concrete, masonry and exterior-grade plywood sheathing.
- Reinforces against plastic shrinkage crack formation.
- Increases impact resistance.
- Fibers are rustproof and corrosion resistant.

## **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 UT Basecoat, apply a coat of Umaco Transeal Clear to all block and brick surfaces then allow to dry

for at least 24 hours before applying UT Basecoat. When using Transeal Clear, do not first apply Bond All Exterior.

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

All plywood sheathing (and studs) should be the proper grade and moisture content (typically below 20%) for construction in order to prevent unnecessary cracking. A 1/8" space should be provided between the edges of adjacent sheathing panels to allow for expansion. Install weep screed at base of plywood sheathing. Cover the plywood sheathing 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, casing beads and corner beads may then be attached. Install self-furring, galvanized metal lath (diamond mesh) with the long dimensions across the supports. For typical 16 inch on center framing, metal lath should not weigh less than 2.5 lb per square yard for vertical surfaces and not less than 3.4 lb per square yard for horizontal surfaces such as ceilings. Securely fasten the metal lath through the sheathing to the wood or metal studs of the frame using washer head screws spaced at 6" on center. Adjoin wire lath with 3" overlap at sides and 3" overlap at lath ends over studs. Stagger end laps in succeeding courses. It is very important that the metal lath stops at each side of a control joint and never continues unbroken behind them.

## **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 UT Basecoat and mix to a mortar like consistency for approximately four to five minutes or until entirely blended. Allow mixture to soak for 4-5 minutes, remix then apply. Mix only as much material that can be applied within approximately 1/2 hour. Do not retemper.

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



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## **APPLICATION**

### **Over Concrete and Masonry**

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 UT Basecoat with a 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 smooth and level surface (with no trowel marks) at 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 UT basecoat may be applied to obtain the desired thickness. UT Basecoat must cure at least 24 hours before applying U-Trowel or Finish-Coat.

### **Over Galvanized Metal Lath**

Metal lath must be properly fastened (See Surface Preparation). Apply a thin coat of UT Basecoat with a steel trowel over the entire area within the control joints or within the area being worked, firmly pressing the material while completely encasing the metal lath. Immediately double back and apply a second coat to produce a smooth and level surface (with no trowel marks) at 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 UT Basecoat may be applied to obtain the desired thickness. UT Basecoat must cure at least 24 hours before applying U-Trowel or Finish Coat.

## **COVERAGE**

Approximate coverage per each 50 lb bag of UT Basecoat:

### **Over Concrete and Masonry**

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

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

### **Over Metal Lath**

1/4".....15-20 square feet

## **SPECIAL PRECAUTIONS**

- 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 UT Basecoat 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 UT Basecoat 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.
- 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!**

**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**

- 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