

# U-COAT 3000

**A LOW ODOR, WATER CATALYZED, URETHANE POLYUREA, LIQUID APPLIED, ELASTOMERIC WATERPROOF MEMBRANE FOR HORIZONTAL SURFACES**

**U-COAT 3000** is low odor, water catalyzed, urethane polyurea, liquid applied, elastomeric waterproof membrane for horizontal surfaces.

## **FEATURES**

- Non-gassing.
- Applied at any thickness.
- May be applied over green concrete.
- Solvent free.
- Quick curing.
- Monolithic membrane.

## **TYPICAL USES**

- Under tile.
- Green roofs.
- Basements.
- Bridges.
- I.R.M.A. roofs with insulation, pavers or ballasted.
- Between slab.
- Tunnels.
- Foundations.
- Planters.

## **COLOR**

Black.

## **PACKAGING**

5 gallon (18.9 liter) pail

## **SURFACE PREPARATION**

Concrete or plywood substrates must be free of all contamination that may impair proper bonding. Substrates must be sloped a minimum of 1/4" per foot for drainage and must be primed with the applicable primer prior to application of the membrane and surface protection materials.

### **Concrete**

The surface of concrete substrates must be clean and free of standing water. All holes, joints and cracks must be pointed flush with Portland cement mortar and

all high spots cut or ground off to provide a smooth, even surface. Before material is applied, the substrate must be clean and free of dust or foreign material. Paint, grease and oil must be removed either by grinding or sandblasting and concrete surfaces must be shot blasted or water blasted. Control joints should be cut per standard concrete construction practices and caulked. Concrete must exhibit 3000 psi minimum. Concrete surfaces to be coated must be trowel finished in compliance with the American Concrete Institute (except that hand troweling is not required), followed by a fine hair brooming, left free of loose particles and shall be without ridges, projections, voids and concrete droppings that would be mechanically detrimental to coating application or function. New concrete must be cured for 28 days prior to product application. Concrete should have a pH balance between 8.0 and 11.0.

### **Plywood**

Plywood should be new or cleaned and sanded. Plywood must be exterior grade having tongue and groove edges and ends perpendicular to supports. The plywood will be 19/32" or 21/32" thick. Plywood should be installed with a maximum of 1/16" space between the plywood sheets and laid over joists on 16" centers. Plywood sheets must be screwed down securely or nailed with coated annular ring or shank nails. If the underside of the joists is covered, the floor/ceiling cavity must be vented to aid in drying and to minimize moisture buildup in the deck structure. Damaged panels will be repaired/replaced before coating. Old plywood must be cleaned and sanded before priming with U-Coat Primer at a rate of 1/3 gallon per 100

## **TECHNICAL DATA** **U-COAT 3000 (unmixed)**

Hardness, ASTM D-2240.....	25 ± 5 Shore A
Tear Resistance, Die C, ASTM D-624.....	50 ± 20 pli 8.7 ± 0.8 kNm
Tensile Strength, ASTM D-412.....	300 ± 50 psi 2.06 ± 0.3 MPa
Ultimate Elongation, ASTM D-412.....	650 ± 50%
Total Gravity.....	1.12
Total Solids by Weight, ASTM D-236.....	95 ± 2%
Total Solids by Volume, ASTM D-2697.....	94 ± 2%
Volatile Organic Compounds.....	< 0.5 lb/gal ASTM D-2369-81 < 60 gm/liter

square feet prior to coating application. The only acceptable grade of plywood is APA rated, exterior grade with exterior glue or better. The appearance and physical characteristics of the plywood and grade should be considered

## **MIXING**

Before application, mix U-Coat 3000 using a mechanical mixer at slow speed. Mix U-Coat 3000 with water at a ratio of one quart of water to five gallons of U-Coat 3000. This will yield 5-1/4 gallons of membrane. The mixing ratio is 20 parts U-Coat 3000 to 1 part of water (20:1). Use care not to allow the entrapment of air into the mixture.

## **APPLICATION**

For best results, apply using a squeegee or notched trowel. Surfaces must be dry and free of foreign matter. Requires a continuous coating application to minimize line and/or streaking. Metal surfaces should be primed with U-Coat Primer 2180.



**60 REAR NEWHALL STREET**

**PHONE: 978-453-8881**

**LOWELL, MA. 01852**

**FAX: 978-453-2416**

### **COVERAGE**

Five gallons of U-Coat 3000 mixed with one quart of water will provide 16 mils of coverage over 100 square feet per gallon. Plywood or uneven surfaces may require additional material to achieve the same thickness.

### **CURING**

Allow each coat to cure a minimum of 2-4 hours before proceeding with subsequent coats.

### **EQUIPMENT CLEANUP**

Equipment should be cleaned with an environmentally safe solvent as permitted under local regulations immediately after use.

### **LIMITATIONS**

- Do not apply if ambient temperature is below 50°F (10°C) or above 90°F (32.2°C).
- Surfaces must be dry, clean and free of foreign matter.
- U-Coat 3000 is not UV stable.
- U-Coat 3000 is fast curing and must be applied immediately after mixing with water.
- May shrink.
- Cannot withstand direct wear or abrasion.
- Refer to U-Coat 3000 Waterproofing Membrane System specifications.
- Containers that have been opened must be used as soon as possible.
- The following substrates must not be coated with Umaco U-Coat deck coating systems or products: on grade or below grade slabs, split slabs with buried membrane, sandwich slabs with insulation, slabs over unvented metal pan, suspended pool decks, swimming pools, magnesite, lightweight concrete, asphalt surfaces and asphalt overlays.

### **STORAGE**

U-Coat 3000 has a shelf life of six (6) months from date of manufacture in original, factory sealed containers. Keep from freezing.

### **WARNING**

This product Isocyanates and solvent.

**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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