

# U-COAT 3000 WATERPROOFING MEMBRANE SYSTEM (60 DRY MILS)

## SYSTEM DESCRIPTION

The U-Coat 3000 waterproofing membrane system is a user-friendly, liquid applied, waterproofing membrane. The system uses one or two coats of a fast setting, water catalyzed polyurethane coating and protection board. It is an elastomeric system designed to expand and contract with normal structural movements. The U-Coat 3000 waterproofing system has a wide range of uses for both vertical and horizontal applications. Installed properly, the U-Coat 3000 waterproofing system will ensure years of dependable waterproofing protection.

## FEATURES

- Applied at any thickness.
- Non-gassing.
- Quick curing.
- May be applied on green concrete
- Monolithic Membrane.
- High solids.

## TYPICAL USES

- Under tile.
- Between slabs.
- Green roofs.
- Restrooms
- Basements
- Tunnels.
- Foundation walls.
- Bridges.
- Planters.
- I.R.M.A. roofs.
- Wood surfaces.

## PRODUCT INSTRUCTIONS

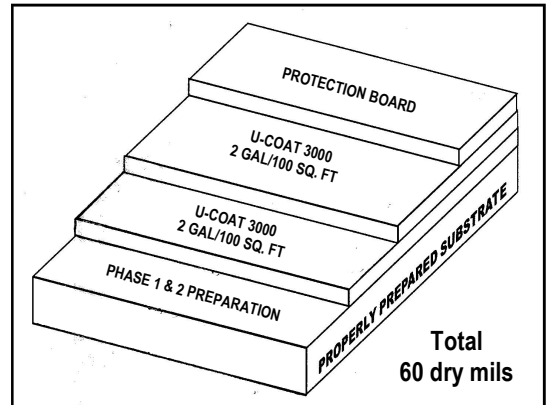
For complete information associated with the application of all U-Coat Product systems and products, refer to the General Guidelines and Technical Bulletin sections of the U-Coat Products catalog, which describes the products, surface preparation, job conditions, finishing details and other necessary information.

## APPLICATION

**Phase 1:** Check area of application to ensure it conforms to substrate requirements. Prime all metal, joints and cracks with U-Coat Primer 2180. All shrinkage and non-moving structural cracks under 1/16" shall be primed then pretreated with U-Coat 3000 extending 3" on either side of the crack. Bridge the metal, joints and cracks with 4" Straight Jacket Tape, pushing it into U-Coat 3000 with a trowel. Over the reinforcement tape, apply a stripe coat of U-Coat 3000 and smooth onto adjacent surface. All cracks over 1/16", moving structural cracks and cold joints, shall be routed to 1/4" wide by 1/4" deep, the area should be primed and the void sealed U-Coat 3000.

**Phase 2:** Prime the surface with U-Coat Primer 2180 at a rate of 1 gallon/300 square feet. Apply using brush, airless sprayer or phenolic core roller. This will result in 3 dry mils (76 microns) of coating. Allow U-Coat Primer 2180 to dry one hour before (and become tack free) before proceeding to Phase 3.

**Phase 3:** The first coat of U-Coat 3000 should be applied at a rate of 2 gallons/100 sq. ft. (0.8 liters/m<sup>2</sup>) resulting in a 30 ± 2 dry mils (762 ± 51 microns) membrane. Allow to cure before applying second coat.



**Phase 4:** The second coat of U-Coat 3000 should be applied at a rate of 2 gallons/100 sq. ft. (0.82 liters/m<sup>2</sup>) resulting in a 30 ± 2 dry mils (762 ± 51 microns) membrane. At 75°F (24°C) and 50% relative humidity, allow a minimum of 24 hours before checking watertightness.

**Phase 5:** To ensure integrity of the system a flood test should be performed according to the following procedure:

**Step One:** Waterproofed area shall be flood tested for 24 hours after system has cured and prior to installation of protection course.

**Step Two:** Plug drains and place barriers to contain the water.

**Step Three:** Flood test to a depth of 2 inches for the duration of the test.

**Step Four:** Repair any leaks that may appear.

**Phase 6:** Protect all exposed membrane surfaces by installing protection board as per manufacturers instructions, making sure to butt edges together.



60 REAR NEWHALL STREET

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## FINISHED SYSTEM

When applied as directed above, the U-Coat 3000 waterproofing membrane system will provide 60 dry mils (1524 dry microns) of superior waterproofing protection. Any optional adhesion test is to be performed seven days after product application.

## PACKAGING

U-Coat 3000: 1 gallon can or 5 gallon pail

## LIMITATIONS

- The following conditions must not be coated with U-Coat Products coating systems or products: concrete over an unvented metal pan, magnesite, light-weight concrete, asphalt surfaces and asphalt overlays.
- Concrete must exhibit 3000-psi minimum strength. 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.
- U-Coat coating systems should not be subjected to rising water tables or hydrostatic pressure on slab-on-grade decks.
- The only acceptable grade of plywood is APA rated exterior grade or better.
- The appearance and physical characteristics of the plywood and grade should be considered.
- Plywood should be new or cleaned and sanded.
- Equipment should be cleaned with a urethane grade environmentally safe solvent, as permitted under local regulations, immediately after use.
- Uncured materials are sensitive to heat and moisture.
- The substrate must be structurally sound and sloped for proper drainage.

- Umaco, Inc. assumes no responsibility for substrate defects.
- Do not apply to contaminated surfaces.
- Protection board must be used.
- Containers that have been opened must be used as soon as possible.
- Coating should be applied at least 5°F (3°C) above the dew point.
- Coverage rates recommended are based on lab conditions, applied at 75°F (24°C) ambient temperature and are intended to be minimum coverage rates on clean, smooth plywood, and are exclusive of additional amounts needed to fill potholes, spallings, scaling, rough and irregular surfaces.
- Porosity and roughness of the substrate, aggregate size, and product temperature will affect coverage rates.
- Material mil thickness rates are calculated on theoretical coverage for a smooth substrate and do not account for the actual texture or substrate conditions in the field or at the time of application.
- Sample mockups on the projects are recommended to determine the exact coverage rates necessary to waterproof the deck to acceptable standards.
- Field visits by Umaco personnel are for the purpose of making technical recommendations only and are not to supervise or provide quality control on the job site.

## WARNING

The products in this system contain Isocyanates and Solvent

**For technical assistance call 978-453-8881.**

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

## LIMITED WARRANTY

*Please read all information in the general guidelines, product data sheets, guide specifications and material safety data sheets (MSDS) before applying material. Published technical data and instructions are subject to change without notice. Contact your local Umaco representative or visit our website for current technical data and instructions.*

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.

**01/01/2013**

- Concrete Patching & Repair Products
- Masonry Waterproofing Products
- Acrylic Admixtures & Bonding Agents



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