

U-COAT 5000 WATERPROOFING MEMBRANE SYSTEM (58 DRY MILS)

SYSTEM DESCRIPTION

The U-Coat 5000 waterproofing membrane system is a user-friendly, high solids, single component, liquid applied, waterproofing membrane for cured or green concrete. U-Coat 5000 is available as 5000V for Vertical surfaces and 5000H for Horizontal surfaces. The system uses two coats of a modified polyurethane coating and protection board. It is an elastomeric system designed to expand and contract with normal structural movements. The U-Coat 5000 waterproofing membrane system has a wide range of uses for both vertical and horizontal applications. Installed properly, the U-Coat 5000 waterproofing membrane system will ensure years of dependable waterproofing protection.

APPROVALS, CODES & TESTING

- Meets the Criteria of ASTM E-96
- Meets the Criteria of ASTM C-836

FEATURES

- Single Component
- Low VOC
- Waterproof
- Durable
- Resistant to Bacterial Growth
- Elastomeric
- User Friendly
- Labor Saving

TYPICAL USES

- Green Concrete
- Bridges
- Masonry
- Wood / Metal
- Tunnels
- Planters
- Podiums
- Between Slabs
- Roof Terraces

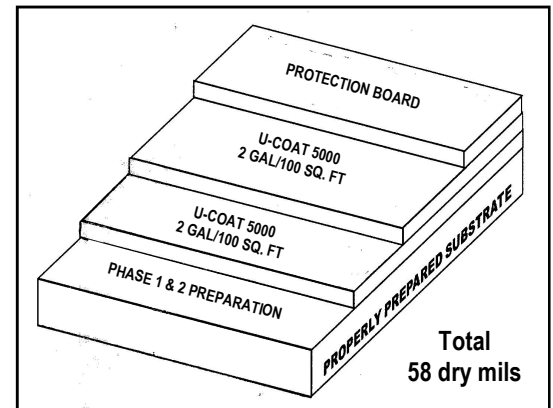
- Plaza Decks
- Foundation Walls
- Parking Decks
- Bathrooms/Restrooms
- Planter Boxes
- Reflecting Pools
- Basements

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: Surfaces to be waterproofed must be clean and free of standing water. Concrete slabs should have a light broom finish. Consult with architect or general contractor on concrete curing time before foot traffic is permitted. Any residual release agents must be removed prior to application of U-Coat 5000. Check area of application to ensure it conforms to the substrate requirements. All shrinkage and non-moving structural cracks under 1/16" shall be pretreated with not less than a 30 wet mil coating of U-Coat 5000 extending 3" on either side of the crack. Bridge the joints, cracks, and flashings with 4" Straight Jacket Tape, pushing it into U-Coat 5000 with a trowel. Over the reinforcement tape, apply a stripe coat of U-Coat 5000 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, a joint backing



shall be inserted and the void sealed with an appropriate polyurethane sealant.

Phase 2: The first coat of U-Coat 5000 should be applied at a rate of 2 gallons/100 sq. ft. (0.82 liters/m²) resulting in a 27 ± 2 dry mils (686 ± 51 microns) membrane. Allow to cure before applying second coat.

Phase 3: The second coat of U-Coat 5000 should be applied at a rate of 2 gallons/100 sq. ft. (0.8 liters/m²) resulting in a 27 ± 2 dry mils (686 ± 51 microns) membrane. At 75°F (24°C) and 50% relative humidity, allow a minimum of 24 hours before checking water tightness.

Phase 4: 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.



60 REAR NEWHALL STREET

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Phase 5: Protect all exposed membrane surfaces by installing protection board as per manufacturer's instructions, making sure to butt edges together.

FINISHED SYSTEM

When applied as directed above, the U-Coat 5000 waterproofing membrane system will provide 58 dry mils (1372 dry microns) of superior waterproofing protection. Any optional adhesion test is to be performed seven days after product application.

PACKAGING

U-Coat 5000: 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.
- 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.
- Concrete forms and bond breakers must be removed at least twenty-four hours before application of U-Coat 5000.
- Do not use Curing Compounds.
- Use adequate ventilation while applying U-Coat 5000.

- Do not apply to contaminated surfaces.
- U-Coat 5000 is not designed to be used as an exposed or wearing surface.
- Protection board must be used.
- Not UV Stable.
- 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 Aromatic Hydrocarbons, Isocyanates and Solvent

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

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