

U-COAT 527

TWO COMPONENT, 100% SOLIDS, ALIPHATIC POLYASPARTIC POLYUREA, LIQUID APPLIED SURFACE TOPCOAT FOR WATERPROOFING MEMBRANE SYSTEMS

U-COAT 527 is a 100% solids by volume, aliphatic polyaspartic coating, two component, liquid applied, environmentally friendly surface topcoat for waterproofing membrane systems. U-Coat 527 is quick curing and specifically formulated to be installed in thin film applications.

FEATURES

- Quick cure.
- High tensile strength.
- Abrasion resistant.
- Color stable.
- Very durable.
- Excellent weatherability.
- Topcoat over aromatic polyurea, polyurethane and epoxy applications ranging from 35 °F to 130 °F with service temperature of 0 °F to 200 °F.
- Seamless waterproofing membrane.
- UV resistant for superior gloss retention.
- Available in Clear, Dolphin Gray and Tan.

TYPICAL USES

- Concrete.
- Plywood.
- Cold storage areas.
- Industrial warehouses.
- Chemical plants.
- Off shore oil platforms.
- Steel.
- Plastic.
- Food processing areas.
- Pulp and paper mills.
- Fertilizer plants.
- Pipeline barges.

PACKAGING

2 Gallon Kit: (7.57 liters): 1 gallon (3.78 liters) can Part-A and 1 gallon (3.78 liters) can Part-B.

MIXING

U-Coat 527 may not be diluted under any circumstances. Proportions are premeasured. U-Coat 527 Part-A and Part-B should be mixed individually before combining. Add Part-B to Part-A while mixing, using a mechanical mixer, at medium speed. Mix until a homogeneous mixture and color is obtained (at least 5 minutes) and mix frequently during application to maintain uniform color. Use care to scrape the sides of the container to ensure that no unmixed material remains. Use caution not to whip air into the material as this may result in pinhole blisters and/or shortened pot life. Do not mix any material that cannot be used within 20-30 minutes.

APPLICATION

U-Coat 527 can be applied by phenolic resin core roller, high pressure spray or through a cup gun under low pressure. U-Coat 527 should be applied at a minimum film thickness of 5 mils. It should be noted that the heavier the application, the longer the curing process takes. Apply U-Coat 527 evenly over the entire deck. For best results use an airless sprayer. If a phenolic resin core roller is used, extra care should be taken not to cause air bubbles.

CURING

At 75 °F (24 °C) and 50% relative humidity, allow each coat to cure 3-4 hours. Cure time will vary depending on temperature and humidity. Allow six

TECHNICAL DATA (Based on draw down film) U-COAT 527, CLEAR

Mix Ratio by Volume.....	1A:1B
Dry Film Thickness, exclusive of aggregate, per coat at 1/2 gal/100 sq. ft.....	16 ± 2 mils 406 ± 50 microns
Pot Life at 75 °F (24 °C), 50% RH.....	20-30 minutes
Hardness, ASTM D-2240.....	65 ± 2 Shore D
Tear Resistance, Die C, ASTM D-624...400 ± 50 pli	70.1 ± 8.8 kN/m
Tensile Strength, ASTM D-412.....	3000 ± 200 psi 20.7 ± 1.4 MPa
Ultimate Elongation, ASTM D-412	70 ± 10%
Specific Gravity, Side A.....	1.10
Side B.....	1.05
Total Solids by Weight, ASTM D-2369.....	100%
Total Solids by Volume, ASTM D-2697.....	100%
Viscosity at 75 °F (24 °C), Side A.....	2600 ± 300cps
Side B.....	1100 ± 300cps
Volatile Organic Compounds ASTM D-2369-81.....	0.0 lb/gal 0.0 gm/liter

TECHNICAL DATA (Based on draw down film) U-COAT 527, PIGMENTED

Mix Ratio by Volume.....	1A:1B
Dry Film Thickness, exclusive of aggregate, per coat at 1/2 gal/100 sq. ft.....	16 ± 2 mils 406 ± 50 microns
Pot Life at 75 °F (24 °C), 50% RH.....	20-30 minutes
Hardness, ASTM D-2240.....	65 ± 2 Shore D
Tear Resistance, Die C, ASTM D-624...375 ± 50 pli	65.7 ± 8.8 kN/m
Tensile Strength, ASTM D-412.....	2600 ± 200 psi 17.9 ± 1.4 MPa
Ultimate Elongation, ASTM D-412	30 ± 10%
Specific Gravity, Side A.....	1.10
Side B.....	1.24
Total Solids by Weight, ASTM D-2369.....	100%
Total Solids by Volume, ASTM D-2697.....	100%
Viscosity at 75 °F (24 °C), Side A.....	2600 ± 300cps
Side B.....	2000 ± 300cps
Volatile Organic Compounds ASTM D-2369-81.....	0.0 lb/gal 0.0 gm/liter



60 REAR NEWHALL STREET

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hours before permitting light pedestrian traffic and at least 24-48 hours before permitting heavy pedestrian traffic onto the finished surface. Uncured U-Coat 527 is very sensitive to heat and moisture. Higher temperatures and/or high humidity will accelerate the cure time. Use caution in batch sizes and thickness of application. Low temperature and/or low humidity extend the cure time.

EQUIPMENT CLEANUP

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

STORAGE

U-Coat 527 has a shelf life of one (1) year from date of manufacture in original factory sealed containers when stored indoors at a temperature between 60-95 °F (15-35 °C).

LIMITATIONS

- Surfaces must be dry, clean and free of foreign matter.
- Clear coating may turn opaque and cloudy due to moisture penetration especially in exterior applications.
- Surface may be slippery when wet.
- Containers that have been opened must be used as soon as possible.
- Do not dilute under any circumstance.

WARNING

This product contains Isocyanates.

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

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.

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



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