**U-COAT 129** is a two component, liquid applied, asphalt extended aromatic polyurethane that adheres to most substrates, to form a waterproof membrane. **U-COAT 129** is an ideal coating for tank liners and containment storage. Safe for use when in contact with potable water.

- Seamless waterproofing over concrete, steel, metal, wood, glass and asphalt
- Bridges cracks and joints
- Impervious to water and aqueous chemicals
- Low VOC
- Tank liners
- Potable water containment and storage
- Pond liners
- Ponds with scrim
- Reservoirs
- Roofing with scrim
- Containment
- Corrosion protection

<table>
<thead>
<tr>
<th>Polyurethane Membrane</th>
<th>May be applied by brush, squeegee, trowel or phenolic resin core roller.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Packaging</td>
<td>1 Gal. Kit (Side A: Side B) 4.5 Gal. Kit (Side A: Side B)</td>
</tr>
<tr>
<td>Coverage Rate</td>
<td>Apply two coats at a rate of 2 gallons per 100 ft² or 50 ft² per gallon.</td>
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<tr>
<td>Service Temperature</td>
<td>-60°F to 200°F</td>
</tr>
<tr>
<td>Mixing</td>
<td>Mix Part A and Part B obtaining a uniform color scraping solids from the bottom and sides of pail</td>
</tr>
<tr>
<td>Pot Life</td>
<td>18-20 min at 75°F, 50% RH</td>
</tr>
<tr>
<td>Dry Time</td>
<td>Approximately 4 hours at 77°F, 50% RH</td>
</tr>
<tr>
<td>Recoat Time</td>
<td>After 1 hour at 77°F, 50% RH</td>
</tr>
</tbody>
</table>

Phone: 800-442-5535
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ADVANTAGES
- Low VOC
- Seamless waterproofing
- Economical
- User friendly
- Bridges cracks and joint
- Safe for use when in contact with potable water
- Impervious to water and aqueous chemicals
- May be applied over concrete, steel, metal, wood, glass and asphalt

USES
- Tank liner
- Potable water containment/storage
- Pond liner
- Ponds with scrim
- Reservoirs
- Roofing with scrim
- Waterproofing
- Containment
- Corrosion protection

PACKAGING
1-Gallon Kit: One 1 pint can, net fill 0.1 gallon (0.38 liters) of Side-A and One 1 gallon can, net fill 0.9 gallon (3.4 liters) of Side-B
4.5-Gallon Kit: One 1/2 gallon jar, net fill 0.45 gallon (1.70 liters) of Side-A and One 5 gallon pail, net fill 4.05 gallon (15.30 liters) of Side-B

PREPARATION
Substrates must be free of all contamination that may impair proper bonding. Substrates must be sloped a minimum of 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 the 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 and Old Concrete
Refer to SSPC-SP13/NACE 6, or ICRI 03732: CSP 3-5. New concrete must be cured for 28 days prior to product application. Surface must be clean, dry, sound and offer sufficient profile for product adhesion. Remove all dust, dirt, oil, form release agents, curing compounds, salts, efflorescence, laitance and other foreign matter by shot-blasting and/or suitable chemical means, in accordance with local chemical regulations. Rinse thoroughly, to achieve a pH between 8.0 and 11.0. Allow to dry completely. If old concrete has a surface that has deteriorated to an unacceptably rough surface, U-Coat 260 or a mixture of U-Coat Primer and sand should be used as a repair agent for cracks, spalls, bug holes and voids. Upon full cure of the repair agent, prime the entire surface intended for coating.

Surface Preparation Reference
- ASTM D4258
- Standard practice for cleaning concrete
- ASTM D4259
- Standard practice for abrading concrete
- ASTM D4260
- Standard practice for etching concrete
- ASTM F1869
- Standard test method for measuring moisture vapor emission rate of concrete

Note: The above plywood grade is called out in compliance with the American Plywood Association’s Standard. Plywood grading which does not reference APA markings may not be a suitable grade. No liability is assumed by Umaco for defects in the substrate.

Metal
Wire brush or sand steel surfaces until the metal is bright. Solvent wipe after cleaning.

MIXING
Proportions are premeasured. Using a mechanical mixer, premix U-Coat 129 Side-B material thoroughly to attain a uniform color. Add Side-A to Side-B material and box and mix thoroughly until a uniform mixture is achieved. Do not mix in an up and down motion. Use care not to allow the entrapment of air into the mixture. U-Coat 129 should not be mixed by hand.
APPLICATION
Apply two coats of U-Coat 129 at 2 gallons/100 ft² (0.8 liters/sqm) or 50 ft²/gallon each coat directly to a clean, dry substrate meeting the substrate requirements.
Application of U-Coat 129 should not start if surface temperature is below 50°F (10°C). Ambient temperature must be 5°F (3°C) above dew point. Do not apply when the ambient or substrate temperature is rising. Squeegee, notched trowel or phenolic resin core roller may be used; if a roller is used extra care should be taken not to trap air bubbles into the mixture. For most applications, apply U-Coat 129 evenly over the entire deck in two coats at 2 gallons/100 ft² (0.8 liters/sqm) or 50 ft²/gallon resulting in 28 dry mils & (112 microns) per coat.
U-Coat 129 may be recoated one hour after application. Recoating multiple or second coats must be completed within eight (8) hours of previous applications of U-Coat 129. After this eight (8) hour window, it is necessary to abrade, clean and prime surface prior to recoating. Abrading shall be by grinder or other mechanical means.
CURING
At 75°F (24°C) and 50% relative humidity, allow coating to cure for 24 hours before allowing foot traffic. U-Coat 129 is sensitive to heat and moisture. Higher temperature and relative humidity will accelerate the curing time. If more than 8 hours passes between coats, re-prime the surface with U-Coat Primer U before proceeding.
CLEAN UP
Equipment should be cleaned with an environmentally safe solvent, as permitted under local regulations, immediately after use.
STORAGE
U-Coat 129 has a shelf life of one year from date of manufacture in original, factory-sealed containers when stored indoors at a temperature between 60-95°F (15-35°C).
LIMITATIONS
• The following conditions must not be coated with Umaco U-Coat deck coating systems or products: on grade slabs, split slabs with buried membrane, sandwich slabs with insulation, slabs over unvented metal pan, swimming pools, magnesite, lightweight concrete
• Asphalt surfaces and asphalt overlays may be coated with U-Coat coating systems if first coated with U-Coat 129
• Do not apply U-Coat 129 in wet weather or if rain is imminent
• Coating should not become wet within 4 hours after application
• Containers that have been opened must be used as soon as possible
• Do not dilute under any circumstance.

TECHNICAL DATA
Based on Draw Down Film

U-COAT 129
Coverage Rate
2 gallons/100 ft² (0.8 liters/sqm)
Elastomeric Waterproofing
ASTM C-836: Exceeds
ASTM C-957: Exceeds
Total Solids (Volume), ASTM D-2697 89%
VOC’s, ASTM D-2369-81 87 gm/liter
Mullen Burst Strength, ASTM D-751.50 mil 155 ± 25 psi (no break)
Tear Strength, Die C, ASTM D-624 150 ± 50 lbs/in
Tensile Strength, ASTM D-412, 100 mil sheet 900 ± 100 psi
Extension to Break, ASTM D-412 450 ± 100%
Membrane Weight, 60 mils (1.5mm WFT) approximately 30 lbs/100 ft² (1.5 kg/sqm)
Recovery from 100% extension, After 5 minutes = 98%
After 24 hours = 100%

Crack Bridging
10 cycles @ - 15°F = > 1/8” (0.325 cm)
After Heating Aging = > 1/4" (0.65 cm)
Weathering, ASTM D-822
Pass 5000 hrs.
Softening Point, Ring Ball, ASTM D-36
> 400°F (204 °C)
Deflection Temp., ASTM D-648
Pass
Service Temperature
-60 to 200°F (-51.1 to 93.3°C)
Hardness, ASTM D-2240 @ 77°F 50 ± 5 Shore A
Permeability to Water Vapor, ASTM D-96 method E,100°F, 100 mil sheet 0.06 perm
Abrasion Resistance - Wt. Loss Taber Abraser CS-17 Wheel, 1000 gr./1000 rev., ASTM D-4060 7.2 mg loss
Electrical Resistivity, ASTM D-257, 50% R.H. 23°C, 2” (50mm) disc, 100 mil (2.5mm) thickness 3.86 x 10E14 ohm.cm
Adhesion to Concrete (dry) Elcometer 350 ± 50 psi
Time to Reach 20 Shore A Hardness, @ 77°F, 200 gram quantity 24 hrs. max
Working Time (Pot Life) @ 77°F 18-20 min
Set Time to Polyurethane Film hours, ASTM D-164 procedure 5.3.2 4 hours

WARNING
This product contains aromatic hydrocarbons, Isocyanates and solvent.
For technical assistance call 978-453-8881.
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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.