



UI-7015 CLEAR

MOISTURE CURED URETHANE CLEAR POLYURETHANE MAINTENANCE COATING

1. PRODUCT

UI-7015 CLEAR is a single component, liquid applied, moisture cured, abrasion-resisting polyurethane maintenance coating. It is based on an aliphatic (non-yellowing) isocyanate with a saturated polyester backbone. UI-7015 CLEAR has a high gloss finish upon curing. UI-7015 CLEAR is used in those areas where a moderate to low VOC, low solvent containing clear maintenance coating is required by regional EPA regulations.

2. FEATURES

Composition: A single component, solvent borne, clear, high performance, moisture cured polyurethane. UI-7015 CLEAR cures to yield a high gloss finish in order to maximize stain resistance. The physical properties of cured UI-7015 CLEAR are effective over extended periods of exterior exposure.

Basic Uses: UI-7015 CLEAR is designed to coat concrete, decorative or natural aggregates and wood surfaces for exterior applications. When applied at the proper thickness the coating will assist to minimize dirt and oil penetration. It is easily cleaned with water and detergent and provides a high gloss, bright appearance. UI-7015 CLEAR is extremely wear resistant compared to conventional paints and coatings. It is resistant to most commonly encountered dilute acids, alkalis, organic solvents and oils as well as many dry chemicals. UI-7015 CLEAR is used as a topcoat in Urethane Polymers (UPI) Decorative Aggregate Surfacing Systems. It will brighten an exposed aggregate, highlighting the color of the aggregate. It is also used as a clear dress up top coat for other UPI Pedestrian Traffic Waterproofing Systems.

Limitations: Containers that have been opened must be used within one or two days, since the product is a moisture-reactive material that will gel or set up when exposed to air. Keep lid tightly sealed when material is not in use. Surfaces to be coated must be clean, dry, free of contaminants and free of dew or entrapped moisture. **This material contains flammable and combustible solvents.**

UI-7015 CLEAR cures faster when applied under warm temperature and high humidity conditions and slower when applied under cool temperature and low humidity conditions.

Availability: UI-7015 CLEAR is stocked in the 400 VOC and 100 VOC versions and available via special order in the 250 VOC version.

Shelf life: Twelve (12) months after manufacture when continuously stored indoors in the original unopened metal containers at temperatures under 80°F.

3. INSTALLATION

Surface Preparation: All surfaces to be coated must be clean, dry and free of all contaminants. It is recommended that concrete be cleaned by sandblasting or mechanically grinding. Metal surfaces must have no oxidation present prior to coating. Ceramic tile should be degreased and stripped to remove any wax on the surface and mechanically abraded. Wood and aggregate should be cleaned with a detergent and rinsed with water under high pressure and allowed to dry. The appropriate primer or base coats should be used in all cases.

Caution: Cured UI-7015 CLEAR may be slippery and may require the use of skid-resisting or texturing aggregate. Moisture trapped under the cured UI-7015 CLEAR has the potential to create a fog or cloudy layer under the clear coating.

Application: UI-7015 CLEAR shall be spray, roller, or brush applied at a rate of 100 square feet per gallon in a manner resulting in a pinhole-free 8 mil minimum dry film thickness. Additional coats may be applied after an overnight cure, but no later than 24 hours after initial application. The completed coating system should not be subjected to any heavy pedestrian traffic during the first 48 hours after application is completed. In certain applications, where a rapid cure may be desirable, UPI has Accelerators which may be added to dramatically reduce cure time. Do not proceed with application of materials when surface temperature of the substrate to be coated is less than 45°F.

4. TECHNICAL SERVICE

Technical Assistance is available by contacting:

URETHANE POLYMERS INTERNATIONAL, INC.
10880 Poplar Avenue Fontana, California 92337
Phone: (909) 357-7200
Fax: (909) 357-7215
Email: info@urethanepolymers.com

5. PRECAUTIONS

Before using this product read the container precautionary label and MSDS sheet carefully. Personnel applying the coating should wear protective clothing and gloves, avoid contact of material with skin or eyes, and avoid breathing vapors. Mix and apply in well ventilated areas and observe normal safety precautions. Keep materials away from heat, sparks, and flames. Do not allow use of spark producing equipment during application and until all solvent vapors are gone. Post "No Smoking" signs. Store materials in a dry place at temperatures between 50°F and 80°F. **THIS PRODUCT IS FOR PROFESSIONAL USE ONLY.**

6. LIMITED WARRANTY

Urethane Polymers Int'l, Inc. (UPI) warrants this product to be free of defects in workmanship and materials only at the time of shipment from our factory. If any UPI materials prove to contain manufacturing defects that substantially affect their performance, UPI will, at its option, replace the materials or refund its purchase price.

This limited warranty is the only warranty extended by UPI with respect to its materials. There are no other warranties, including the implied warranties of merchantability and fitness for a particular purpose. UPI specifically disclaims liability for any incidental, consequential, or other damages, including but not limited to, loss of profits or damages to a structure or its contents, arising under any theory of law whatsoever.

The dollar value of UPI's liability and buyer's remedy under this limited warranty shall not exceed the purchase price of the UPI material in question.

7. TECHNICAL DATA

UI-7015 CLEAR MAINTENANCE COAT

PROPERTY	TYPE UI-7015 (400 VOC)	TYPE UI-7015-HS (250 VOC)	TYPE UI-7015-SC (100 VOC)	ASTM TEST METHOD
Solids Content (By Volume)	53 ± 2%	53 ± 2%	48 ± 2%	D-1353-78
VOC Content	400 grams/liter	250 grams/liter	100 grams/liter	Calculated
Weight Per Gallon	8.6 ± 0.2 lbs.	9.8 ± 0.2 lbs.	10.2 ± 0.2 lbs.	D-1475-60
Viscosity @ 77°F	500-700 cps	500-700 cps	500-700 cps	D-2393-80
Cure Time @ 77°F, 50% R.H. @ 5 mils	2 hours dry to touch 24 hours through cure	4 hours dry to touch 36 hours through cure	4 hours dry to touch 36 hours through cure	-----
Coverage, Sq. Ft., Per Gal. @ 8 mils (dry film)	100	100	95	
Flash Point	Above 82°F	Above 110°F	Above 110°F	D-1310-82
Tensile Strength	5000 ± 500 psi	5000 ± 500 psi	5500 ± 500 psi	D-412-80
Ultimate Elongation	175 ± 50%	175 ± 50%	150 ± 50%	D-412-68
Hardness, Shore A	90	90	90	-----
Moisture Vapor Transmission @ 10 mils	0.2 perms	0.2 perms	0.2 perms	D-3389
Abrasion Resistance (inch loss)	Less than .001	Less than .001	Less than .001	C-502 Tabor Abrasion, 1000 Rev. with 1000 Gm. Weight, CS-17 wheel
Chemical Resistance (Commonly encountered dilute acids, salts, and oils)	Excellent	Excellent	Excellent	D-543-67
Service Temperature Range	-30°F to 185°F	-30°F to 185°F	-30°F to 185°F	D-1349-78
Thermal Shock	No loss of adhesion	No loss of adhesion	No loss of adhesion	Alternate Heat/Cold Cycle

UI-7015 CLEAR TOP COAT (14)