



## UREA-DEK 6490

### SELF-LEVELING ALIPHATIC POLYUREA TOP COAT

#### 1. PRODUCT

UREA-DEK 6490 is a high solids content, two component, liquid applied, aliphatic industrial maintenance coating based on new polyurea technology. It can be used as a high solids top coat for many of the polyurea and polyurethane deck coating systems supplied by Urethane Polymers International, Inc. (UPI). UREA-DEK 6490 displays a lower level of irritating odors and is formulated with environmentally friendly Oxol-100, resulting in a minty smell.

#### 2. FEATURES

UREA-DEK 6490 has improved chemical resistance and water resistance compared to conventional elastomeric aliphatic protective coatings. It is formulated with adhesion enhancing chemicals to form a long term chemical bond to silica based texturing granules. UREA-DEK 6490 has an extended gel time for better flow out and more uniform finish which can usually be walked on within a few hours after being applied.

#### 3. BENEFITS

Easy application, by squeegee, roller or low pressure airless spray  
Superior water resistance, excellent weathering properties  
Rapid cure at room temperatures as well as lower temperature or lower humidity conditions  
High hiding with one coat application  
Color stable aliphatic polyurea-ester-urethane backbone  
High tensile strength, high abrasion resistance

#### 4. PRODUCT DESCRIPTION

**Basic Uses:** UREA-DEK 6490 is an abrasion-resistant and weather resistant Top Coat designed for use in UPI Traffic Bearing and Roof Coating Systems where there is a requirement for a low VOC and fast curing top coat. Please refer to the pertinent Application Specification Data Sheet for application details.

UREA-DEK 6490 is used where optimum weather resistance, abrasion resistance and color stability are required. It is typically used in conjunction with the UREA-DEK 6460 & 6470 series Polyurea membranes. The cured UREA-DEK 6490 top coat easily withstands the extreme environmental conditions encountered in exterior construction environments. When used in conjunction with elastomeric base membranes, the UREA-DEK 6490 composite systems are designed to handle the substrate expansion and contraction which is typical during low temperature to high temperature thermal cycling. UREA-DEK 6490 may also be used alone as an abrasion-resisting maintenance coating.

**LIMITATIONS:** Containers of Part A (base resin) that have been opened must be used within 7 days, since the product is a moisture-reactive material that will set up when exposed to moisture in the air. Keep lid tightly sealed when material is not in use.

**Shelf Life:** Nine (9) months after manufacture when continuously stored indoors in unopened metal pails at temperatures under 80°F.

UREA-DEK 6490 is available in two (2) standard colors. Non-stocking colors are available with a minimum order of 180 gallons per batch. Contact our Technical Service Department for further information.

#### 5. INSTALLATION

**Surface Preparation:** All surfaces to be coated with UREA-DEK 6490 must be thoroughly dry and free of all contaminants, including oxidation on old top coats or base coats as well as construction debris or deposits.

**Application:** Always stir the pigmented Part A thoroughly prior to use. UREA-DEK 6490 is normally applied at a rate of 100-133 square feet per gallon, per coat, resulting in a wet film thickness of 12 to 16 wet mils.

Coverage will vary depending on the texture, aggregate size or degree of surface porosity. The larger the aggregate used, the lower will be the coverage due to the larger surface area of the aggregate. UREA-DEK 6490 is easily applied by squeegee, roller, or notched trowel. Always follow by backrolling. At 50% relative humidity and 77°F, the coating will reach an initial set within 2 hours. Light traffic should not be allowed on the finished coating for 3-4 hours.

#### 6. MAINTENANCE

If a UREA-DEK 6490 coated surface is damaged, it can be repaired by light sanding or by scrubbing with a solution of TSP and water, followed by a thorough rinse with water. Allow to dry. Follow this with a solvent wipe with xylene or acetone mixed with UI-7113 penetrating cleaning additive. When the surface is dry, apply additional UREA-DEK 6490.

#### 7. 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

#### 8. PRECAUTIONS

This product contains aliphatic isocyanates, low viscosity amine chain extenders and petroleum hydrocarbon solvents. Read the container-precautionary labels and Safety Data Sheet (SDS) carefully. Exposure to urethanes and petroleum solvents may cause allergic skin and respiratory reaction. Personnel applying coatings containing petroleum solvents and isocyanate prepolymers should wear protective clothing, goggles and gloves and should use only with adequate ventilation and respiratory protective gear. Avoid contact of material with skin or eyes and avoid breathing vapors. Mix and apply only in well-ventilated areas. Read the appropriate SDS prior to handling the epoxy primers or the UREA-DEK 6490 coating components. THIS PRODUCT IS FOR PROFESSIONAL USE ONLY.

#### 9. LIMITED WARRANTY

Urethane Polymers International, 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.

10. TECHNICAL DATA

**UREA-DEK 6490**

<i>PROPERTY</i>	<i>TYPICAL VALUE</i>	<i>ASTM TEST METHOD</i>
Polymer Composition	Aliphatic Polyurea Polyurethane	-----
Solids Content (By Weight) (Mixed Material)	80 ± 2%	D-1353
Weight Per Gallon	10.6 ± 0.2 lbs.	D-1475
VOC Content (Mixed Material)	Less than 100 gm/l	Calculated
Flash Point (Mixed Material)	Above 116°F	D-93
Tack-Free Time @77°F, 50% R.H. @ 12 mils	2 hours	-----
Tensile Strength	3750 ± 400 psi	D-412
Ultimate Elongation	175 ± 50%	D-412
Hardness, Shore A	90 ± 5	D-2240
Adhesion to Base Membrane	30 pli	Peel Adhesion
Moisture Vapor Transmission @ 20 mils	0.1 perms	E-96
Abrasion Resistance, Inch Loss	Less than .001	C-502 Tabor Abrasion, 1000 Rev, 1000 Gm. Weight, CS-17 Wheel
Tear Strength	350 ± 50 lb./in.	D-1004
Chemical Resistance (Commonly encountered acids, salts, and oils)	Excellent	D-2299
Weathering Resistance	No Chalking @ 2000 hours	G-23
Service Temperature Range	-30°F to +200°F	-----

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