



## UI-7016-AR SERIES HIGH PERFORMANCE AROMATIC POLYURETHANE COATING

### 1. PRODUCT DESCRIPTION

UI-7016-AR is a single component, liquid applied, high tensile strength, moisture-cured, aromatic polyurethane surface protection coating.

### 2. BASIC USES

UI-7016-AR is the low cost wear surface topcoat used in some of the deck and roof coating systems manufactured by Urethane Polymers International, Inc. (UPI). UI-7016-AR is also used as the high strength, high adhesion "aggregate receiving coat" in the Uradek vehicular systems and in the decorative colored-quartz decking systems. When UI-7016-AR is incorporated into these systems, it adds protection to concrete and plywood decks, parking structures, mechanical equipment pads and areas that require a seamless membrane for protection against water damage. It can also be used in industrial locations where surfaces must withstand vehicular and foot traffic abrasion resistance. UI-7016-AR can also be used on properly prepared metal, rubber, wood, and masonry surfaces that require environmental protection. It helps protect the surface from many types of mild chemical spills and will eliminate concrete dusting problems.

### 3. COLORS AND PACKAGING

UI-7016-AR is stocked in the UPI Standard Colors of Sidewalk Gray and Monterey Sand. Custom Colors are available. Custom Colors and Non Stocking Colors require a minimum order of 180 gallons.

Available in 5 gallon and 55 gallon containers.

### 4. GENERAL INFORMATION

**PRE-APPLICATION PRECAUTIONS:** UI-7016-AR is an aromatic topcoat and the surface appearance may become flat, may form a light chalky condition and will have some color change upon prolonged UV exposure. Containers that have been opened must be used within 1 or 2 days, since UI-7016-AR is a moisture reactive material which sets up when exposed to air. UI-7016-AR should not be diluted. It is recommended to apply the UI-7016-AR with a final textured surface in order to provide the needed slip-resistance. Improperly textured surfaces may be slippery under wet conditions.

**PRECAUTIONS:** UI-7016-AR is a component of the UPI Decking Systems. It should primarily be used as stipulated in the installation and specification data sheets. Results which arise from use other than what is stipulated are not tested or recommended.

UI-7016-AR requires a few precautions to be followed during and after application. Each application should be done in one complete step. A continuous application will ensure a smooth and level coat with no lines or streaks to disfigure the deck. Application should not be stopped part way across an area and then completed several or more hours later.

**MIXING INSTRUCTIONS:** Mix UI-7016-AR thoroughly before using or before adding the optional UPI ACCELERATORS (UI-9801 and UI-9599). Material should be mixed thoroughly with a mechanical mixer (Jiffy Mixer) at low RPM. Care must be taken not to whip air into the mixture as this may cause pin-holes.

**APPLICATION:** The first coat of UI-7016-AR should be applied at the rate of 80 to 110 square feet per gallon, depending upon the surface texture. For best results use a squeegee, trowel or phenolic core roller. Spread UI-7016-AR evenly over the entire deck resulting in 15-20 wet mils. Allow to cure over night before applying the second coat. Most applications will require two Top Coats (one aromatic and one aliphatic). To obtain proper adhesion between coats it is imperative that re-coating be done within

48 hours. Allow UI-7016-AR to cure at least 24 hours before permitting light pedestrian traffic. **Note:** Curing time depends on humidity and temperature. Low temperature and low humidity extends the curing time. Use the UI-9801 or UI-9599 Accelerators to shorten cure time. Refer to the UPI ACCELERATOR Technical Bulletins for further information.

### 5. MAINTENANCE

If a UI-7016-AR coated surface is damaged, it can be repaired by light sanding or by scrubbing with industrial soap and water, followed by a thorough rinse with water. Follow this with a solvent wipe with acetone or xylene and UI-7113 penetrating cleaner. When the surface is dry, apply additional UI-7016-AR.

### 6. AVAILABILITY

UI-7016-AR is supplied through Building Material Distributors. Prices vary with quantity and packaging. For the name of your nearest Distributor or Sales Representative please contact the factory.

These products are designed and manufactured to be installed by professional installers familiar with surface preparation and application procedures. All others should consult a professional installer. Those who choose to install these products without professional assistance do so at their own risk.

### 7. PRECAUTIONS

Before using this product read the container precautionary label and the MSDS sheets carefully. This product contains isocyanates and solvents. Exposure to urethanes or petroleum solvents may cause allergic skin or respiratory reactions. Do not get into eyes, onto skin, or clothing. If contact occurs, flush affected areas with soap and water. Wash clothing before reuse. Use only with adequate ventilation. Seek medical help for all over exposures. **THIS PRODUCT IS FOR PROFESSIONAL USE ONLY.**

### 8. 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](mailto:info@urethanepolymers.com)

### 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

**UI-7016-AR SERIES**

| <i><b>PROPERTY</b></i>  | <i><b>UI-7016-AR-SC<br/>(100 VOC)</b></i> | <i><b>UI-7016-AR-HS<br/>(250 VOC)</b></i> | <i><b>TEST<br/>METHOD</b></i> |
|---|---|---|-------------------------------|
| Polymer Composition   | Aromatic Polyurethane                     | Aromatic Polyurethane                     | -----                         |
| Solids Content (By Weight)  | 82 +/- 2%                                 | 78 +/- 2%                                 | ASTM D-1353                   |
| VOC Content   | 100 grams/liter                           | 250 grams/liter                           | Calculated                    |
| Weight Per Gallon   | 10.4 ± 0.2 lbs.                           | 9.7 ± 0.2 lbs.                            | ASTM D-1475                   |
| Viscosity @ 77°F  | 25-35 poise                               | 25-35 poise                               | Brookfield                    |
| Cure Time @77°F, 50%<br>R.H. @ 10 mils                                  | 16 hours                                  | 16 hours                                  |                               |
| Flash Point   | Above 116°F                               | Above 116°F                               | ASTM D-93                     |
| Tensile Strength  | 3300 ± 300 psi                            | 3300 ± 300 psi                            | ASTM D-412                    |
| Ultimate Elongation   | 225 ± 50%                                 | 225 ± 50%                                 | ASTM D-412                    |
| Hardness, Shore A   | 90 ± 5                                    | 90 ± 5                                    | ASTM D-2240                   |
| Adhesion to Base Coat   | 30 pli                                    | 30 pli                                    | -----                         |
| Water Vapor Permeability  | 0.3 perms                                 | 0.3 perms                                 | ASTM E-96                     |
| Tear Strength   | 300 ± 50 lb./in.                          | 300 ± 50 lb./in.                          | ASTM D-1004                   |
| Chemical Resistance<br>(Commonly encountered<br>acids, salts, and oils) | Good                                      | Good                                      | ASTM D-2299                   |
| Weathering Resistance   | No Chalking @ 500 hrs                     | No Chalking @ 500 hrs                     | ASTM G-23                     |
| Service Temperature Range   | -30 to + 180°F                            | -30 to + 180°F                            | -----                         |
| Thermal Shock   | No loss of adhesion                       | No loss of adhesion                       | Alternate<br>Heat/Cold Cycle  |

UI-7016-AR SERIES (14)