

## **U**TEK EP-F Flooring System

### 1. Product Description

#### Basic use

*U-Tek* flooring systems are developed to provide moisture tolerant flooring options while incorporating functional flooring resins for chemical resistance, skid resistance and thermal relief. The aliphatic urethane cement base floor with the EP-F wear course upper system is excellent for use in Animal Holding, Manufacturing or other areas that are subject to substrate moisture, high impact, chemical resistance and subject to thermal changes. *U-Tek EP-F* is not recommended for wet and wash down areas such as cage wash and wet housing areas.

EP-F flooring is a hybrid flooring system composed of urethane and epoxy resins using flake broadcast for texture and color. *U-Tek EP-F* is composed of LOW or NO VOC resins and as such is LEED compliant. The seal coat is chemical resistant epoxy.

*U-Tek* systems can be installed over a sloping slab or they may be used to slope and enhance the flow of water to the drain(s). Sloping is recommended in all wet areas since floors that are immersed under constantly ponding water and chemicals tend to deteriorate faster than flooring under alternate wet/dry conditions. Unless otherwise specified, *U-tek EP-F* will follow the contour(s) of the existing substrate and can not be used as a stand alone system to correct such problems. EP-F specifically is not recommended for wet heavy abuse areas.

As with any flooring system, environmental conditions surrounding the installation are important. Ambient temperatures need to be above 45 F degrees with slab temperatures at or above 60 degrees F; humidity must be below 75%. These conditions can be tough to achieve in certain new construction scenario but if they are not achieved the installation may suffer aesthetically and the

resins may not performed as designed. Consequently LSP can not be responsible for the performance of the flooring system installed under adverse conditions.

The initial layer is a urethane cement and as such is not sensitive to moisture migration through the substrate at reasonable levels. Concrete substrates should be checked for moisture migration using ASTM F 1869-98 calcium chloride test prior to installation to assure they are not extreme.

#### **Features and benefits include:**

- Clear and Decorative
- Low HAP
- Low VOC
- LEED Compliant
- 100% solids – solvent free
- Excellent Bond Strength
- Excellent Chemical Resistance
- Excellent Thermal properties
- Excellent impact resistance
- High Taber Resistance

The LSP Performance systems in general are composed of resins and aggregates which utilize the best available technology for safety, performance and lowest environmental impact. All products and systems are extensively field tested prior to use on live projects.

#### **Limitations**

LSP Performance flooring must not be used to bridge moving cracks or joints. The EP-F System is not recommended for wet heavy abuse areas. Non-moving cracks or joints that must be over coated require rigid repairs or references and filled with a urethane caulk. Surface or air temperature must be between 65°F minimum and 80°F maximum and relative humidity below 75%. Lower temperatures will extend cure time and higher temperatures will reduce pot life and work life. Chemical resistance as depicted in the specification is a relative classification and we recommend testing the

chemicals you use in your facility on test flooring samples before making your final selection.

## 2. General Information and Handling

### Storage and Handling

Store at temperatures above 60 degrees F.

### Product Health and Safety Information

Refer to container labels and Material Safety Data Sheets available from LSP for health, safety and environmental information. If necessary, call LSP at (800) 638-9874.

### Applicable Standards

LSP resins have been tested in accordance with American Society for Testing and Materials (ASTM) methods. The USDA and FDA no longer regulate coatings used on floors, walls, and ceilings in food process areas, since the surfaces are not intended for food contact.

### Mixing

The use of proper PPE is required when mixing catalysts.

Measure the resin into plastic, marked containers. Add liquids together and agitate using a jiffy paddle and low speed drill (400-600 rpm). Agitate for 2 minutes, and then scrape sides of container and mix for an additional minute. Avoid generating air bubbles and foam. Consider mixing small batches to reduce potential waste. To avoid exothermic reaction in mixing container, do not let mixed components sit in container. Immediately, pour the mixed binder resin onto the floor to be coated. Spread or finish material according to application instructions contained in LSP Technical Manual.

## 3. Warranty

LSP Performance Systems are installed by LSP Associate Contractors and are available with the LSP Single Source Limited Warranty for Labor and Material. This Product Data Sheet is for your information and is neither a contract nor a product warranty. Your installation contract is provided by your LSP Associate Contractor. LSP's warranty to you is made solely in the LSP Single Source Limited Warranty for Labor and Material. Contact your Associate Contractor for the specific warranty document.

## 4. Maintenance

LSP Performance Systems are hard seamless surfaces that will provide years of life with little maintenance. For more detailed maintenance instructions, please request LSP Floor Maintenance Instructions. Periodic inspections by your LSP Associate Contractor are recommended to discuss ways to extend the life of the floor care.