

UTEK UV-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 ultra-violet UV-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 UV-F flooring is a hybrid flooring system composed of urethane, epoxy, and vinyl ester resins that are styrene free using flake broadcast for texture and color. *U-tek* UV-F is composed of LOW or NO VOC resins and as such is LEED compliant. Because of the nature of seal coat activation system the performance properties of the resin are enhanced by the cure.

U-tek UV-F flooring has been specifically designed to cure within seconds at such an advanced level so as to allow you to use of the flooring for chemical exposure and weight loads as soon as it is cured with no waiting. The system has excellent thermal properties and impact resistance.

The activator utilized in the seal coat resin (UV-13) is added and pre mixed in controlled conditions at the factory and does not require field proportioning to achieve maximum performance. Since the activator is a monomer, the guess work related to the accurate addition and mixing of final product has been removed. The predictability of the seal coat performance is greatly enhanced by these unique traits.

This *U-tek* system can be installed over a sloping slab or may be used in combination with other systems to slope and enhance the flow of water to the drain(s). Sloping is recommended in all wet areas since flooring that is immersed under constantly ponding water and chemicals tends to

deteriorate faster than flooring under alternate wet/dry conditions. Unless otherwise specified, *U-tek* UV-F will follow the contour(s) of the existing substrate and can not be used as a stand alone system to correct such problems. UV-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
- No amber change by UV
- 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 UV-F System is not recommended for wet heavy abuse areas. Non-moving cracks or joints that must be over coated require rigid repairs. N2 flooring is not subject to discoloration from UV light therefore. Surface or air temperature must be between 45°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 and agitate using a jiffy paddle and low speed drill (400-600 rpm). Agitate for 2 minutes, then add the powders slowly, mixing continuously to get a flow able mix. 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.

