

Eco-UVS™

InstaCure™ Solution



DESCRIPTION – This three-component product is high in solids and cures instantly with the use of a UV light machine. It is applied directly to concrete, vinyl tile or over previously coated epoxies or urethanes and has a satin finish.

- **LEED® CREDIT** – LEED Green Building Certification Program credits may be available:
 - **Indoor Environmental Quality**
 - 4.2 Low-Emitting Materials, Paint & Coatings

ENVIRONMENTALLY & USER FRIENDLY

- Wears like a standard urethane, similar to WearGuard™-240.
- Instant cure of topcoat allows for immediate traffic.
- Protects against damage due to dirt, wear and listed chemicals
- Cleans easily, saving detergent, labor and water costs
- Satin finish resists dulling in traffic aisles
- Complies with SCAQMD VOC regulations--100 g/L.

PRIMARY APPLICATIONS

Designed for main traffic aisles and areas subject to industrial traffic that can only be shut down for a short time.

APPLICATION COVERAGE RATE

Coverage Rate, ft ² /gal [m ² /L]	500 [46.45]
Application Thickness, wet mils [mm]	3.2 [0.08]

MATERIAL PROPERTIES (LIQUID)

Property	Test Method	Results
Percent Solids, by wt	ASTM D1475	A+B+C = 89.55 [95.78]
Volatile Organic Compound, VOC, lb/gal [g/L]	ASTM D3960	A+B+C = 0.06 [7]

SYSTEM PROPERTIES

Property	Test Method	Results
Abrasion Resistance Taber Abraser CS-17 Taber Abrasion Wheel, 1,000 gram load, 1,000 revolutions	ASTM D4060	40-60
Coefficient of Friction - COF, James Friction Tester	ASTM D2047	0.52-0.57
König Hardness		120-140
Sward Hardness (1 mil film)	ASTM D2134	20

Results are based on conditions at 77°F (25°C)

GENERAL PRODUCT INFORMATION

STORAGE:	Materials should be stored indoors between 65°F (18°C) and 90°F (32°C).
SHELF LIFE:	Six months from date of manufacture.
PACKAGING OPTIONS / PART NUMBERS:	1.0 gallons / 9000435
OPTIONS:	<i>Traction:</i> To improve traction in slip hazard areas, use 291 Grit for applications less than 8 mils. See 291 Grit Product Guide.
LIMITATIONS:	<i>Sunlight:</i> Eco-UVS cannot be exposed to sunlight during application. <i>Color:</i> Colorants cannot be used in Eco-UVS. <i>Contamination (Fisheyes):</i> Product may fisheye if oil, silicones, mold release agents or other contaminants are present.

TENNANT COATINGS

For First Impressions That Last™

CHEMICAL RESISTANCE PROPERTIES

Eco-UVS Clear		1 Day	7 Days	Eco-UVS Clear		1 Day	7 Days
Acids, Inorganic			Solvents (Chlorinated)				
10% Hydrochloric Acid	E	E	Methylene Chloride		P	P	
30% Hydrochloric Acid (Muriatic)	G	G	Solvents (Ketones & Esters)				
10% Nitric Acid	G	G	Methyl Ethyl Ketone (MEK)		F	P	
50% Phosphoric Acid	G	G	Propylene Glycol Methyl Ether Acetate (PMA)		F	P	
37% Sulfuric Acid (Battery Acid)	G	G	Miscellaneous Chemicals				
Acids, Organic			20% Ammonium Nitrate		E	E	
10% Acetic Acid	G	F	Brake Fluid		G	F	
10% Citric Acid	G	P	Bleach		P	P	
Oleic Acid	F	P	Motor Oil (SAE 30)		E	E	
Alkalies			Skydrol® 500B		G	G	
10% Ammonium Hydroxide	F	F	Skydrol® LD4		G	G	
50% Sodium Hydroxide	P	P	20% Sodium Chloride		G	G	
Solvents (Alcohols)			1% Tide® Laundry Soap		G	G	
Ethylene Glycol (Antifreeze)	G	F	10% Trisodium Phosphate		G	G	
Isopropyl Alcohol	G	P					
Methanol	P	P					
Solvents (Aliphatic)							
d-Limonene	E	G					
Jet Fuel - JP-4	E	G					
Gasoline	F	F					
Mineral Spirits	E	E					
Solvents (Aromatic)			Registered trademarks: Tide® of Proctor and Gamble, Skydrol® of Solutia, Inc.				
Xylene	F	F					

ASTM D1308 Test Method 3.1.1 spot test, covered. Results are based on 1-day and 7-day. Coating cured 2 weeks prior to testing.

Legend:

E - Excellent (No Adverse Effect) - Recommended.

F - Fair (Moderate Adverse Effect) - Not recommended.

G - Good (Limited Adverse Effect) - Use for short-term exposure only.

P - Poor (Unsatisfactory) - Little or no resistance to chemical.

*Only adverse effect was staining.

NOTE: *Reduced chemical resistance and staining is possible in pigmented versions of the system.*

IMPORTANT: READ AND FOLLOW ALL PRECAUTIONS AND INSTRUCTIONS BEFORE PROCEEDING.

**PLEASE SEE SAFETY DATA SHEET (SDS) FOR HANDLING PROCEDURES.
USE PRODUCT AS DIRECTED.
KEEP OUT OF THE REACH OF CHILDREN.**

PRELIMINARY FLOOR INSPECTIONS

CHECK THE CONCRETE: Concrete must be structurally sound and free of curing membrane, paint or other sealer. If you suspect that the concrete has been previously sealed, call Tennant Company, technical support for further instructions.

CHECK FOR MOISTURE: Concrete must be dry before application of this floor coating material. Concrete moisture testing must occur. In-situ relative humidity testing is recommended. Readings must be below 75% relative internal concrete humidity. Test methods can be purchased at www.astm.org, see F2170, or follow manufacturer's instructions. If moisture issues are present, the use of a moisture mitigation system may be a consideration. Please call Tennant Company Technical Support for further information / instructions.

NOTE: Although testing is critical, it is not a guarantee against future problems. This is especially true if there is no vapor barrier or the vapor barrier is not functioning properly and/or you suspect you may have concrete contamination from oils, chemical spills or excessive salts.

CHECK THE TEMPERATURE AND HUMIDITY: Floor temperature and materials should be between 65°F (18°C) and 90°F (32°C). Humidity must be less than 80%. Floor temperature must be five degrees greater than the dew point. **DO NOT** coat unless floor temperature is more than five degrees over the dew point.

APPLICATION EQUIPMENT

• Protective clothing	• Roller Assembly (18")
• Slow speed drill (500 rpm or less)	• Mohair Roller Refills
• Jiffy® Mixer Blade [Tennant Part No. 08643-1 (1 gal)]	• Safety Glasses (complies with ANSI Z87.1) that provide 100% UV protection
• UV Light Machine (InstaCure™ or comparable)	• 100 Grit Sandpaper

ASSEMBLE EQUIPMENT: Clean roller with tape to remove any residual lint.

PREPARATION

Detergent scrub and rinse with clean water to remove surface dirt, grease, oil and contaminants.

Diamond Grind: After machining, scrub with an acid wash and rinse with clean water (results of diamond grinding may vary depending on technique and the hardness of the concrete). A primer coat of epoxy, which may yellow instantly upon exposure to UV light machine, may be required to seal porous concrete prior to first application of Eco-UVS.

Vinyl tile:

Strip all of the old conventional finish to ensure there is no sticky residue. To control dust, wet sand all areas of the floor to be coated with **100 grit screens**. Use a palm sander for the edges and detail areas. Completely sweep and detergent scrub the area to remove the sanding dust. Clean water rinse the floor and allow it to dry.

Precoated Concrete: Sand thoroughly with 100 grit paper. Scrub with detergent and rinse with clean water. Substrate may yellow instantly upon exposure to UV light machine. Eco-UVS will "mirror" the surface it coats.

Filling Joints: Depending on the preference of the facility owner, joints may or may not be filled. If the joints are filled, non-moving joints, i.e. contraction or control joints, can be hard filled with thickened epoxy or with a semi-rigid joint filler such as Eco-PJF™ or Eco-EJF™. Construction joints less than one inch wide may also be filled with Eco-PJF. Isolation or expansion joints must be filled with a flexible material designed for this purpose. **Coating applied over filled joints may crack if there is concrete movement.**

APPLICATION – ECO-UVS

ECO-UVS POTLIFE: Open only enough material which can be used in a four-hour period. **NOTE:** Do not expose liquid coating to sunlight. During daytime hours, cover all windows. After exposure to light, the coating will cure.

PREMIX PART A FOR 3 MINUTES using a Jiffy® mixer blade with slow speed drill.

POUR PART C INTO PART A while mixing.

CONTINUE TO MIX AND ADD PART B. Mix for an additional 3 minutes with a Jiffy® mixer.

APPLY ECO-UVS at the rate of 500 ft² per gallon (46.45 m² per 3.78 litres) with a mohair roller. Dip the roller in the coating and lightly roll out excess in the application tray. Apply two 8-10 foot long paths on the concrete, making one stroke left to right and one right to left. Rewet roller and apply two more paths adjacent to the first pair. Rewet roller and a third pair adjacent to the second. Rewet the roller and level the coated area with cross passes. Use this procedure throughout the coating process.

ALLOW COATING TO RELAX for 15 minutes. This will allow any roller marks to level and application bubbles to release from surface.

CURE ECO-UVS AT 2-3 INCHES PER SECOND with UV light machine. Open to traffic immediately after cure.

TECHNICAL SUPPORT

For any preparation or application questions, please call Tennant technical support at 800-228-4943, option 3 (US & Canada), 800-832-8935 (International).

DISPOSAL

Dispose of all excess material, packaging and other waste in accordance with federal, state and local regulations.

MAINTENANCE GUIDELINES

Allow floor coating to cure at least one week before cleaning by mechanical means (e.g., sweeper, scrubber, disc machine).

Care: Proper maintenance will increase the life and help maintain the appearance of your new Tennant floor coating. Sweep and scrub your new coating regularly, as dirt and dust are abrasive and can quickly dull the finish, decreasing the life of your coating. Remove spills quickly as certain chemicals may stain and could possibly permanently damage the finish.

Use soft nylon brushes or white pads on your new floor coating. Any brush more abrasive than a soft nylon or white pad can cause premature loss of gloss.

Detergent: Tennant has a full range of detergents--general purpose to heavy duty--for your cleaning needs. For assistance in determining which detergent is right for your facility or for additional technical information call: 800-228-4943, option 3 (US & Canada), 800-832-8935 (International).

Caution: Avoid scratching or gouging the surface. All floor coatings will scratch if heavy objects are dragged across the surface.

Do not drop heavy or pointed items on the floor as this may causing chipping or concrete popouts in the case of a weak cap.

Rubber tires can permanently stain the floor coating from plasticizer migration. Plexiglass® between the tire and the floor coating can prevent discoloration.

Rubber burns from quick stops and starts can heat the coating to its softening temperature, causing permanent marking.

Repair: Repair gouges or scratches or chip outs as soon as possible to prevent moisture or chemical contamination.

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

Tennant offers a limited warranty on all products. Please see the Tennant Coatings Limited Product Warranty Statement on our website at www.tennantcoatings.com/warranty. Please contact the Tennant Coatings Technical Support team for additional questions at 800-228-4943, option 3 (US & Canada), 800-832-8935 (International).