



1100SL UV - ACTIVATOR

PRODUCT DESCRIPTION

SIMIRON 1100SL is a 100% solids, blush-resistant, self-leveling epoxy that has resistance to ambering by UV light. A special UV activator is used with the standard epoxy base. This basecoat is designed to be used over sealed concrete where high-build and durability are needed. This workhorse epoxy has toughness and good chemical resistance. Use with **Decorative Chip**, quartz, or **Metallic Additive** to create systems that are attractive and durable, or broadcast non-skid aggregates to produce a slip-resistant surface.

FEATURES & BENEFITS

- Resistant to UV damage
- Self Leveling
- Seamless
- Solvent Free
- Chemical Resistant
- Durable
- Excellent Adhesion Properties
- Impact Resistant
- Safe For Incidental Food Contact
- User-Friendly Work Time

RECOMMENDED USES

- Use as a basecoat over **1000HS Primer** for all **Simiron** systems as a build layer.
- Combine with **Metallic Additive** or broadcast into with **Decorative Chip**, quartz, or silica sand.

PRODUCT INFORMATION

PRODUCT NAME	SIZE	COLOR/FINISH	ITEM NUMBER
1100SL 100% Solids Self-Leveling Epoxy, Base	2-Gallons	Neutral / Gloss	40004156
1100SL UV Activator	1-Gallon	Neutral / Gloss	40012595

3-gallons 1100SL clear can be pigmented with 1-pint Simiron U-Tint in the following colors: Haze Gray, Light Gray, Deck Gray, Sandstone, White, Black, & Tile Red (2 pints White and Sandstone can be used to improve hide).

TECHNICAL DATA

PHYSICAL DATA	
Components	2 (Base & Activator)
Color	Clear
Finish	High Gloss
Mix Ratio (by volume)	2 Base: 1 Activator
Curing Mechanism	Chemical reaction between components
Solids by Volume	100%
Solids by Weight	100%
Mixed Viscosity	1000 - 1100 cP
VOC (EPA Method 24)	0 g/L

THEORETICAL COVERAGE		
Wet Mil (microns)	10 (254) - min.	30 (762) - max.
Coverage sq. ft./gal. (m ² /L)	160 (3.9) - min.	53 (1.3) - max.

CURE TIMES @ 72°F (25°C) 50% RH *	
Work Time	60 - 70 minutes
Tack Free	10 hours
Light Foot Traffic	30 hours
Heavy Traffic	5 days
Full Cure	1 week
Minimum Recoat	10 hours
Maximum Recoat	48 hours **

**Higher temperatures will shorten pot-life and working time.
**Apply another coat of epoxy or a topcoat within 48 hours of the initial coat of 1100SL. If the re-coat window is missed, the coating system will need to be sanded.*

PHYSICAL PERFORMANCE PROPERTIES

PHYSICAL PROPERTIES	TEST METHOD	RESULTS
Adhesion	ASTM D7234	> 400 psi (100% Concrete Failure)
Coefficient of Friction (Wet DCOF)	ANSI A326.3	> .55
Compressive Strength	ASTM D695	11,600 psi
Flammability	—	Self-extinguishing over concrete
Flexural Strength	ASTM D790	12,800 psi
Gloss @ 60° Angle	ASTM D523	> 90
Hardness, Shore D (24 hours / 1 week)	ASTM D2240	45 / 85
Taber Abrasion (CS17 Wheel, 1000 g Load, 1000 Cycles)	ASTM D4060	50 mg loss
Tensile Strength	ASTM D638	9,600 psi
QUV Resistance (100 hrs in QUV)	ASTM G154	Ecmc = 8 (std epoxy 35), gloss 87-89

CHEMICAL RESISTANCE

CHEMICAL	RESULTS	CHEMICAL	RESULTS	CHEMICAL	RESULTS						
10% Acetic Acid	G	Methyl Ethyl Ketone	G	Betadine	G*						
Vinegar	G	Xylene	F	Bleach	E						
10% Citric Acid	G	Ethylene Glycol	G	Urine	E						
10% Hydrochloric Acid	G	Isopropyl Alcohol	F	Coffee	E						
30% Hydrochloric Acid (muriatic)	G	Mineral Spirits	E	Cola	E						
10% Nitric Acid	G*	Brake Fluid	F	Ketchup	G						
50% Phosphoric Acid	F	Transmission Fluid	E	Mustard	G						
10% Sulfuric Acid	G	Motor Oil	E	Red Wine	E						
37% Sulfuric Acid	F	50: 1 Gas/Oil Mixture	E	*Stain is only defect.							
70% Sulfuric Acid	F	E85 Gasoline	E	<table border="1"> <thead> <tr> <th colspan="2">KEY</th> </tr> </thead> <tbody> <tr> <td>E = Excellent</td> <td>G = Good</td> </tr> <tr> <td>F = Fair</td> <td>NR = Not Recommend</td> </tr> </tbody> </table>		KEY		E = Excellent	G = Good	F = Fair	NR = Not Recommend
KEY											
E = Excellent	G = Good										
F = Fair	NR = Not Recommend										
20% Ammonium Nitrate	E	E95 Gasoline	E								
20% Sodium Chloride	E	Unleaded Gasoline	G								
50% Sodium Hydroxide	E	Skydrol	E								

SURFACE PREPARATION

Concrete and coated concrete surfaces must be sound, clean, dry and free of contaminants such as dirt, dust, grease, oil, silicones and other contaminants that may negatively affect adhesion.

MOISTURE VAPOR BARRIER:

A suitable moisture barrier must be in place for concrete slabs on-grade. If a moisture barrier is not in place, seasonal variations in ground moisture can cause excessive moisture vapor transmission (MVT) regardless of results measured prior to coating application. MVT rate must not exceed three pounds per 1,000 square feet per 24 hours, as directed by ASTM F1869. The relative humidity (RH) of the slab must not exceed 75%, as directed by ASTM F2170. If there is a moisture situation in excess of the above rate, the use of Simiron MVB Moisture Vapor Barrier Primer may be required. Consult a Simiron Representative for details and application procedures.

NEW/BARE CONCRETE:

Diamond grind or shotblast to a CSP 3 or greater surface profile, depending on total thickness of system. Refer to SSPC-SP13/NACE 6 or ICRI Technical Guideline No. 310.2. Prime concrete with **1000HS Primer** to minimize outgassing bubbles.

New concrete must be cured a minimum of 28 days and should meet moisture vapor transmission (MVT) and relative humidity (RH) thresholds as described in Surface Preparation section.

PREVIOUSLY COATED SURFACES:

Clean surface to prevent any contaminants from being spread/redistributed to a greater area being prepared. Thoroughly grind the surface with 30 grit metal diamonds to completely remove any grout or topcoats that are not epoxy based and provide proper surface profile required for adhesion of the system.



1100SL UV - ACTIVATOR

SAFETY AND TECHNICAL

Refer to the SDS sheet before use. Safety precautions must be strictly followed during storage, handling, and use. Personal Protective Equipment (PPE) should be worn at all times. PPE will include (but is not limited to): Safety glasses with side shields and high-quality nitrile gloves. To acquire additional information or technical and safety data, please visit: www.simiron.com.

TEMPERATURE

Air	60° – 85°F	16° – 29°C
Surface	60° – 85°F	16° – 29°C
Material	60° – 85°F	16° – 29°C

*Higher temperatures will shorten pot-life and working time.
Floor temperature must be at least 5 degrees over the current dew point.*

APPLICATION EQUIPMENT

Assemble all equipment. Equipment will include (but is not limited to):

1. Drill and Jiffy® type mixing blade
2. Spiked Shoes
3. Flat metal spring blade or flat EPDM squeegee.
4. 3/8" shed-resistant woven roller covers with phenolic core (tape to remove loose roller hair).
5. Edge rollers, chip brushes
6. Painter's tape, duct tape, measuring and mixing containers

APPLICATION PROCEDURE

1100SL UV 100% Solids Epoxy mix ratio is 2 Parts Base to 1 part Activator by volume. We recommend installing **1100SL UV** over a **Simiron** primer to reduce outgassing on uncoated concrete floors.

1. Pre-mix Base at low speed for 1 minute. If pigmenting, add U-Tint into the Base. Add Part B and mix for three minutes until uniform. Do not mix more material than can be applied in 20 – 30 minutes (material will stiffen or tack-up.)
2. Immediately pour all mixed material on the floor in a long bead approximately 8 – 12 inches wide. Do not scrape sides or leave pail overturned to drain.
Do not attempt to roll material out of a bucket or roller pan.
3. Wearing spiked shoes, spread evenly at 10 – 30 mils by pushing a 1/8" notched squeegee along the bead. Overlap previous passes in order to ensure consistent coverage.
4. Push the squeegee with a slight angle to plow extra material to the side, moving it down the floor.
5. Using a non-shed 3/8" roller, back-roll the epoxy evenly across the squeegee passes to minimize application lines and leave a consistent film thickness. *Do not back-roll material after it begins to get sticky. The epoxy will not level and colored epoxy may turn a different shade.*



CORPORATE OFFICE:

Simiron Inc
3000 Research Drive
Rochester Hills, MI 48309-3580, USA
(248) 686-3600 / (866) 515-8775

Disclaimer: All information provided by Simiron, Inc. concerning Simiron products, including but not limited to, any recommendations and advice relating to the application and use of Simiron products, is given in good faith based on Simiron's current experience and knowledge of its products when properly stored, handled, and applied under normal conditions in accordance with Simiron's instructions. In practice, the differences in materials, substrates, storage and handling conditions, actual conditions and other factors outside of Simiron's control are such that Simiron assumes no liability for the provision of such information, advice, recommendations or instructions related to its products. The uses of Simiron product(s) for suitability for the intended application and purpose before proceeding with the full application of the product(s).

Simiron reserves the right to change the properties of its products without notice. All Simiron product(s) are subject to its current terms and conditions of sale which are available by calling (866) 515-8775.

CLEAN UP & DISPOSAL

Clean up mixing and application equipment immediately after use. Use acetone or xylene; do not use alcohol. Follow solvent manufacturer's safety instructions. Be sure to follow all local, state and federal regulations when disposing of materials.

MAINTENANCE

To maintain the appearance and extend the life of the newly sealed surface, it is imperative to have a routine maintenance program. Dirt and debris that is tracked over a finished floor will quickly scratch and dull the surface. Place walk-off mats at entrances. Sweep and mop/scrub floors regularly using soft bristles/pads and a mild cleaner. Some cleaning products and equipment or improper use of these can damage a surface. Remove spills quickly to minimize damage and/or stains. For systems that support parked vehicles or other heavy items on rubber wheels, place a small piece of nonporous material, such as sheet metal or plexiglass between the tires and floor to prevent tire marks. Reapplication may be necessary in heavy traffic areas.

LIMITATIONS

- ⚠ **1100SL UV** will discolor at a slower rate. It is more resistant to UV damage than typical epoxies but is not light stable.
- ⚠ Do not apply at a temperature or thickness not recommended.
- ⚠ Do not delay in pouring mixed material onto the floor.
- ⚠ Do not apply over loose or unsound concrete, asphalt or bitumen substrates, glazed tile or nonporous brick and tile, magnesite, copper, metal, polyesters, or elastomeric membranes.
- ⚠ Moving joints and shrinkage cracks may reflect through system. Joints that are designed to move may reflect through the finished flooring system if they are not honored.
- ⚠ Tire marking may occur.

SHELF LIFE AND STORAGE

12 months from date of manufacture when stored indoors in the original unopened container at 60°F – 85°F (16°C – 29°C) in a dry location with humidity below 65%.

- ⚠ Do not allow materials to freeze.

TECHNICAL ASSISTANCE

- ❓ Information is available by calling SIMIRON
Toll Free: 1.866.515.8775 / +1.248.686.3600

LIMITED WARRANTY

SIMIRON warrants this product to be free from defect in the material that affects its performance for a period of one year (from date of purchase). SIMIRON will replace at no charge the quantity of the Coating that SIMIRON determines has failed to perform, as the sole and exclusive remedy for any breach of this warranty and/or any other defect or failure of the coating. Proof of purchase is required. Cost of labor for application of any product specifically is excluded. Warranty is void if Simiron products are mixed with or used in conjunction with materials that are substituted for Simiron products. Warranty is nontransferable.

PRODUCT DATA SHEET: 09/23/2025