



# 971EPS EPOXY SILOXANE FLOOR COATING

PRODUCT DATA SHEET  
Edition 07/2019  
Version 006  
30000181

## PRODUCT DESCRIPTION

SIMIRON 971 EPS is a unique high performance, two-component, high solids, low VOC epoxy siloxane floor coating that provides superior resistance against abrasion, chemicals, corrosion, UV exposure and weathering. SIMIRON 971 EPS provides the benefits of a high performance epoxy and polyurethane in one coating and is free from isocyanates.

## FEATURES & BENEFITS

- Excellent abrasion and chemical resistance
- Excellent gloss and color retention from long term UV exposure
- Excellent UV Stability
- Weather Resistant
- Excellent acid and corrosion resistance
- High Solids, Low VOC
- Isocyanate free

## RECOMMENDED USES

- Topcoat for epoxy systems
- Industrial & commercial warehouses
- Food & beverage processing facilities
- Electric equipment plants
- Manufacturing facilities
- Pharmaceutical plants
- Power plants
- Automotive service areas
- High traffic applications
- Hangars
- Schools
- Shop floors
- Garages

## TECHNICAL DATA

### PHYSICAL DATA

Finish	Gloss, Satin
Color	Clear
Components	2gal Base : 1gal Activator
Solids by Volume	81%
Solids by Weight	83%
Recommended Film Thickness	2—5 mils

### FLASH POINT

Base	478°F	248°C
Activator	214°F	101°C

### THEORETICAL COVERAGE

3 mils (76.2 microns)	535 ft <sup>2</sup> /Gal	49.7 m <sup>2</sup> /Liter
5 mils (127 microns)	320 ft <sup>2</sup> /Gal	29.8 m <sup>2</sup> /Liter
VOC (EPA Method 24)	<100 g/L	

**\*\*Do not apply coating thicker than 8 mils.**

### PHYSICAL PERFORMANCE PROPERTIES

Abrasion Resistance	ASTM D4060 CS17 Wheel, 1000 cycles, 1Kg load	40 mg loss
Adhesion	ASTM D4541 Concrete failure; no delamination	Elcometer 2700 psi
Hardness, Shore D	ASTM 2240	70
Gloss Retentio	QUV 2000 hours	>85%

## SURFACE PREPARATION

### Bare Concrete:

Bare concrete and primed concrete must be clean, dry and free of contaminants such as dirt, dust, grease, oil and other foreign materials. A suitable moisture barrier must be in place for concrete slabs on-grade. If a moisture vapor barrier is not in place, seasonal variations in ground moisture can cause excessive hydrostatic pressure regardless of results measured prior to coating application. Concrete should be shot blasted or diamond ground to a surface profile CSP 1 or 2.

### Topcoat for Epoxy System:

When applying on a newly coated epoxy, be sure to apply within the epoxy's recoat window to ensure proper adhesion to the epoxy coating. If applying topcoat outside of the epoxy's recoat window the surface must be abraded by using an 80/100 grit sandpaper, diamond or Diamabrush. Be sure to sand the previous coating until no gloss is visible. Before applying the coating, be sure the surface is clean, dry and free of contaminants such as dirt, dust, grease, oil and other foreign materials. If there is any blushing from the epoxy coating be sure to clean and remove with standard detergent.

## MIXING

This product has a two part **Base** to one part **Activator** mix ratio by volume. Mix material by hand using stir stick provided for 2 — 3 minutes.

⚠ Do not drill mix. ⚠ Never mix more than 1 kit at a time. ⚠ Do not combine multiple kits when mixing.



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## APPLICATION DATA

Surface preparation must be complete as indicated.

APPLICATION TEMPERATURE CONDITIONS		
Air	45–95°F	7–35°C
Surface	45–95°F	7–35°C
Material	45–95°F	7–35°C

POT LIFE		
50 °F (10 °C)/50% RH	72 °F (22 °C)/50% RH	90 °F (32 °C)/50% RH
35 mins	25 mins	15 mins

### DRYING SCHEDULE @ 72°F (22°C) and 50% Relative Humidity

To Touch	3–5 hours
<i>*Mechanically abrade surface with 100–150 grit sandpaper after 12 hours.</i>	
Light Foot Traffic	12–16 hours
Full Cure	3–5 days

**Relative Humidity:** Minimum 25% - Maximum 90%  
⚠ Do not apply if temperature is within 5°F of dew point

## INSTALLATION

### Equipment:

- Brushing: Use a high-quality synthetic bristle brush.
- Rolling: Use a 3/8" nap, woven, shed-resistant roller cover.
- Squeegee: Use a 24" flat / straight flexible rubber solvent resistant blade.

### Application:

Apply within temperature ranges listed, and below 80% relative humidity. Applying outside of these ranges can result in inconsistent film gloss and outgassing. Only mix 1 gal kit at a time. Using an empty/clean 5 gal pail, mix 1 gal kit using a stir stick. ⚠ **DO NOT DRILL MIX.** Working directly out of the 5 gal mixing pail, dip and roll using a 9inch, 3/8" nap, woven roller cover and apply directly to the floor. Roll once or twice and let the product settle. ⚠ **DO NOT OVER-ROLL OR ROLL BACK INTO COATING THAT HAS BEGUN TO TACK UP.** This could trap air into film or cause roller marks. To help prevent visual differences between application be sure to minimize the time between tie-ins. Use control joints or natural breaks as breaking points between mixes. Apply at 535 to 800sq ft. per gal kit for best results. Use a new mixing pail for each kit. Consult with a Simiron representative for help or questions with your product.

## CLEAN UP

Clean brushes, rollers, tools and equipment with lacquer thinner or xylene, follow solvent manufactures safety instructions.

## SHELF LIFE AND STORAGE

Shelf life is 12 months when stored in factory-sealed containers indoors at 55°F to 95°F (13°C to 35°C) for Base and Activator. Keep containers tightly sealed. **DO NOT FREEZE.**

## MAINTENANCE

To maintain the appearance for long-term performance and life expectancy of the newly sealed surface it is imperative to continue routine maintenance program. Each sealer type, traffic and other conditions require a certain routine maintenance program. To increase the life of the floor use inside and outside walk-off mats. Some cleaning products and equipment or improper use of products can damage a wear surface appearance over time. Reapplication may be necessary in heavy traffic areas with greater frequency. Periodic light applications are recommended to maintain gloss and protection.

## PACKAGING

Size/Finish	Item Number
1 Gal Gloss Kit	40002626
1 Gal Satin Kit	40002688

\*\*1gal Kits contain 0.66 gallons/86 fl. oz. (2.50L) Base and 0.33 gallons/42 fl. oz. (1.25L) Activator

## SAFETY PRECAUTIONS

Refer to SDS sheet before use. Safety precautions must be strictly followed during storage, handling and use.



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## TECHNICAL ASSISTANCE

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



## TECHNICAL & SAFETY LITERATURE

To acquire additional information or technical and safety literature, please visit:  
[www.simiron.com](http://www.simiron.com)

## LIMITED WARRANTY

SIMIRON warrants this product to be free from defect in the material that affects its performance for a period of 10 years (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.



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