



CURE & SEAL

PRODUCT DESCRIPTION

SIMIRON CURE & SEAL is a high-solids, water-based curing and sealing compound. As a sealer, **Simiron Cure & Seal** is non-yellowing and bluish resistant to provide a semi-gloss finish on concrete substrates. The self-crosslinking emulsion chemistry, offers a durable film and early water-resistance to whitening or blistering. **Simiron Cure & Seal** can transform interior, exterior, horizontal and vertical surfaces.

Cure & Seal improves resistance to contaminants, stains and abrasion due to its durable film which bonds to clean concrete easily. **Simiron Cure & Seal** allows for increased protection to properly prepared surfaces.

The self-crosslinking chemistry feature of **Cure & Seal** takes the easy-to-spray, pure acrylic polymer solution and turns it into a hard, clear resin film that resists abrasion and staining.

FEATURES & BENEFITS

- Non-Blushing Formula
- Non-Yellowing
- Resists Black Tire Marks
- Low Odor
- Low VOC
- Indoor and Outdoor Use

RECOMMENDED USES

- Freshly Placed Concrete
- Existing Concrete
- Decorative Concrete
- Brick Pavers
- Exposed Aggregate
- Concrete walls

PRODUCT INFORMATION

Size	Item Number
1 Gal (3.8 L)	40004323
5 Gal (19 L)	40004330

TECHNICAL DATA

PHYSICAL DATA	
Color	Milky white liquid, dries clear
Solids by Weight	26.49%
Solids by Volume	25.40%
Weight/Gallon (lbs/gal)	8.57
VOC (EPA Method 24)	49.52 g/L (0.41 lbs./gal)
pH	8.5 - 9.5

THEORETICAL COVERAGE		
First coat	200 - 400 ft ² /Gal (4.9 - 9.8 m ² /Liter)	4 - 8 mils (102-203 microns)
Second coat	400 - 600 ft ² /Gal (9.8 - 14.7 m ² /Liter)	2.7 - 4 mils (69 - 102 microns)
Decorative concrete	300 ft ² /Gal (7.4 m ² /Liter)	5.3 mils (135 microns)

Do not apply coating thicker than 8 mils. Surface porosity determines coverage rate.

CURE TIMES @ 72F (22C), 50% RH	
Work Time	25 minutes
Tack Free	45 - 60 minutes
Recoat Time	1 - 2 hours
Foot traffic	3 - 4 hours
Vehicle Traffic	24 hours (when re-sealing driveways)
Full Cure	5 days

PHYSICAL PERFORMANCE PROPERTIES

PHYSICAL PROPERTIES	TEST METHOD	RESULTS
Alkali Resistance (number of hours, Method #6081, minimum)	ASTM D4541	> 75 hours
Concrete Crosshatch Adhesion (dry/wet) (1 day)	ASTM D4060 CS17 Wheel, 1000 cycles, 1Kg load	5B/5B
Curing Concrete membrane formation	ASTM C309	Passes
Early Water Resistance	ASTM D523	2 hours
Gloss at 60° Angle (2 coats)	ASTM D523	72/18
Hardness - König hardness (1/7 day)	ASTM D2240	25/50
Low-temperature cure @ 40°F	ASTM D523	Pass
Salt Spray 5% Resistance	ASTM D523	> 750 hours
UV Resistance (gloss after 1000 hours in QUV)	ASTM G154	no yellowing

CHEMICAL RESISTANCE

CHEMICAL	RESULTS
Water	No effect
Transmission Fluid	No effect
5W-30 Motor Oil	No effect
Power Steering Fluid	No effect
Window Cleaner	Slight Softening/Blue Ring
Heavy Duty Cleaner	Slight Softening/Whitening
Gasoline	No effect
Diesel Fuel	No effect
Wheel & Tire Cleaner	No effect
Brake Fluid	Softening

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	40° – 85°F	4° – 29°C
Surface	40° – 85°F	4° – 29°C
Material	60° – 85°F	16° – 29°C

Higher temperatures will shorten work and cure times.
Floor temperature must be at least 5 degrees over the current dew point.

SURFACE PREPARATION & APPLICATION

FRESHLY PLACED CONCRETE

Surface must be finished to specified requirements prior to the application of **Simiron Cure & Seal**. Apply one uniform coat with low pressure spray and/or roller after surface water glaze has disappeared. Do not dilute or puddle. A second sealing coat may be applied 1–2 hours afterward. Apply to freshly poured concrete after surface water has evaporated. (Too much surface water can be detrimental to proper film formation.)

EXISTING CONCRETE

Surface must be degreased and cleaned of all contaminants prior to the application of **Simiron Cure & Seal**. After area is completely dry, apply one or two uniform coats low pressure spray and/or roller. Allow first coat to dry 1–2 hours before applying the second coat.



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CLEAN UP AND DISPOSAL

Clean tools and applicator equipment with warm water before sealer dries. After it dries, use aromatic solvent. Be sure to follow solvent manufacturer's safety information.

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.

LIMITATIONS

- ⚠️ Avoid heavy applications to allow proper film formation.
- ⚠️ For proper film development, apply only when the surface temperature is over 40°F (4°C) and the relative humidity is below 80%.
- ⚠️ Mock-ups and field test areas are required in order to validate performance and appearance related characteristics (including but not limited to color, inherent surface variations, wear, anti-dusting, abrasion resistance, chemical resistance, stain resistance, coefficient of friction, etc.) to ensure system performance as specified for the intended use, and to determine approval of the decorative flooring system.

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.

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.

TECHNICAL ASSISTANCE



Information is available by calling SIMIRON
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PRODUCT DATA SHEET: 08/14/2024

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