



1000 HS Primer / Epoxy

Description: **Simiron 1000 HS Primer** is a 100% solids, zero VOC, blush resistant and low viscosity epoxy primer that delivers excellent surface wetting, penetration and extended open time to promote adhesion. It's ideal for use with other Simiron coatings, as well as, quartz and chip broadcast systems.

- Features & Benefits:**
- 100% Solids
 - Easy to apply
 - Low Viscosity
 - Zero VOC
 - Excellent Adhesion
 - Seals porous concrete
 - Reduces pinholes, fish eyes, craters and outgassing of topcoats

Technical:

	<u>Physical Data</u>	
Color		Clear,
Mix Ratio		2 Base: 1 Activator
Volume Solids		100%
Weight Solids		100%
VOC (EPA Method 24):		0
Viscosity, Mixed		450 cps
Shelf Life:		24 months when stored indoors at 55°F to 95°F (13°C to 35°C) for Base and Activator

Performance:

Adhesion	ASTM D4541	>400 psi concrete failure
Compressive Strength	ASTM D695	9,000 psi
Flexural Strength	ASTM D790	6,000 psi
Hardness, Shore D	ASTM D2240	75/65
Tensile Strength	ASTM D638	3,000 psi

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 3 or 4.

Application Data: Coverage: 200 – 500 ft² / US gal @ 3.2 – 8 mils

Application Temperature Conditions:

Air	55°-95°F	13°-35°C
Surface	55°-95°F	13°-35°C

Material	55°-95°F	13°-35°C
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Dew Point: The substrate must be at least 5°F (3°C) above the Dew Point to reduce the risk of condensation or blushing that could lead to adhesion failure between coatings. Be sure to check substrate temperature as well.

Recoat Times:

Temperature	Minimum	Maximum
60°F	10 hours	72 hours
70°F	6 hours	72 hours
80°F	6 hours	72 hours

If recoating or applying basecoat after maximum re-coat time the surface must be abraded to ensure proper inter-coat adhesion.

Cure Times:

Temperature	Foot Traffic	Light Traffic	Full Cure
60°F	~24 hours	~ 24-48 hours	7 days
70°F	~ 16 hours	~ 24 hours	5 days
80°F	~ 14 hours	~ 18 hours	3 days

Application Equipment:

Squeegee – Flat rubber squeegee (depending upon DFT required) with EPDM rubber blade, available from manufacturers of quality application tools like Midwest Rake Company.

Rollers – Use a 3/16” nap, woven, shed-resistant roller cover with phenolic core for back-rolling.

Mixing:

One gallon kit comes premeasured and is ready to mix. Mix contents of each component thoroughly with low speed mixer. Then pour both Base and Activator into a clean five gallon mixing bucket and mix with high speed drill for 3 minutes, be sure that material is mixed thoroughly before using. There is no induction time required and material can be used immediately.

Pot-Life:

Approximately 30 minutes measured @70°F and 50% relative humidity. Higher temperatures or humidity will shorten pot-life and working time.

Application Procedure:

Equipment:

Brushing:

Use a high-quality synthetic bristle brush.

Rolling:

Use a short nap 3/16” nap, woven, shed-resistant roller cover.

Application:

Pour mixed material onto floor in a long bead approximately 8-12 inches wide. Apply primer by flat squeegee at the rate of 200 – 500 ft²/gallon at 3 – 8 mils. Back-roll material and ensure that the coating is pore-free and pinhole-free and provides uniform and complete coverage over the entire concrete substrate. If necessary, apply an additional coat to ensure that the coating is pore-free and pinhole-free and provides uniform and complete coverage over the entire concrete substrate. Do not drain or scrape remaining material in bucket.

Clean Up:

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

Shipping Data:

Packaging Premeasured 1-Gallon Kits
Base: 0.66 gallons 86 fl. oz. (2.50L) in a 1 gallon (3.78L) Container
Activator: 0.33 gallons 42 fl. oz. (1.25L) in a 1 gallon (3.78L) Container

Shelf life is 24 months when stored indoors at 55°F to 95°F (13°C to 35°C) for Base and Activator

Safety Precautions:

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

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.

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