



650 WB Polyamine Epoxy Floor Coating

Description: **Simiron 650 WB** is a durable, interior, low VOC, low odor, two component, water-based polyamine epoxy floor coating. This coating is ideal for low traffic areas that demand good chemical and abrasion resistance with an easy to clean gloss finish.

- Features & Benefits:**
- VOC compliant nationwide
 - Gloss Finish
 - Chemical resistant
 - Easy to clean surface
 - Water-based Formula
 - Easy to use

- Typical Uses:**
- Industrial Warehouses
 - Shop floors
 - Garages
 - Basements
 - Schools
 - Cleanrooms
 - Primer

Technical:

<u>Physical Data</u>		
Color:	Haze Gray, Sandstone and Black	
Finish:	Gloss	
Components:	Two Components (Base and Activator)	
Mix Ratio:	3:1	
Resin Type:	Polyamine Epoxy	
Curing Mechanism:	Chemical reaction between components	
Volume Solids:	55.8% ± 3% may vary by color	
Weight Solids:	65.5% ± 3% may vary by color	
Weight per gallon:	10.4-10.9 lbs. may vary by color	
VOC (EPA Method 24):	<50 g/L; 0.41 lb./gal, mixed	
Flash Point:	>200°F (93°C)	
Pot Life:	90 minutes @ 72°F (22°C) and 50% R.H. (higher temperatures will shorten pot-life)	
Induction Time:	10 minutes	
<u>Recommended Coverage Rate</u>		
<i>per coat</i>	Minimum	Maximum
Coverage sq. ft./gal (m2/L)	250 (6.1)	200 (4.9)
Wet mils (microns):	6 (163)	8 (203)
Dry mils (microns):	3.3 (84)	4.4 (112)
<u>Drying Schedule @ 6 mils</u> (150 microns)		
Tack free	4-6 hours	
Light Foot Traffic	16-24 hours	
Heavy traffic	48 hours	
Full Cure	5 days	

Minimum Recoat: 12-16 hours
 Maximum Recoat: 72 hours. If applying a second coat of 650WB after 72 hours, you must abrade the first coat using 80-100 grit paper/screen.
 Shelf Life: 24 months, unopened and stored indoors at temperatures between 55°F (13°C) to 95°F (35°C) for Base & Activator

Surface Preparation:

Concrete and primed concrete surfaces 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 barrier is not in place, seasonal variations in ground moisture can cause excessive hydrostatic pressure regardless of results measured prior to coating application. Moisture transmission rate must not exceed three pounds per 1,000 square feet per 24 hours. The relative humidity of the slab must not exceed 75%. If there is a moisture situation in excess of the above rate, consult a Simiron representative. New concrete must be cured a minimum of 28 days. If going over an existing resinous or sealed floor, abrade the surface by diamond grinding or shot blasting. To ensure proper coating adhesion, scuff the entire surface.

Previously Painted Surfaces

If in sound condition, clean the surface of all foreign material. Smooth, hard or glossy coatings and surfaces should be dulled by abrading the surface. Apply a test area, allowing paint to dry one week before testing adhesion. If adhesion is poor, or if this product attacks the previous finish, removal of the previous coating may be necessary. If paint is peeling or badly weathered, clean surface to sound substrate and treat as a new surface as detailed above.

Application Data:

Application Temperature Conditions

Air	50°F-95°F	10°C-35°C
Surface	50°F-95°F	10°C-35°C
Material	50°F-95°F	10°C-35°C

Relative Humidity: 85% maximum

Application Equipment:

Squeegee – Flat or notched rubber squeegee (depending upon DFT required) with EPDM rubber blade.

Rollers – Use a 3/8" nap, shed-resistant, woven roller cover with phenolic core for back-rolling.

Mixing:

Premix base thoroughly to ensure any settled pigment is re-dispersed. Pour base and activator into a clean five gallon bucket and mix with a low speed drill and Jiffy blade or with paint stick for three minutes until uniform. After mixing, allow product to sit for a 10 minute induction period before applying.

Application Procedure:

Pour a portion of the mixed material into a paint pan and use a 9" or 18", 3/8" nap, shed-resistant, woven roller cover to dip and roll the material onto the floor. Limit the application area to a 4'x4' section at a time and always maintain a wet edge when rolling back onto already coated areas. Back-roll areas to ensure

product is evenly applied. A squeegee can also be used to spread the product evenly, be sure to back-roll using a 9" or 18", 3/8" nap, shed-resistant, woven roller cover.

Do not roll back into areas that have already began to set up, areas could dry with different texture or color. Be sure to always maintain a wet edge and work your way onto the bare concrete surfaces and not rerolling already coated areas.

When coating a single floor area, always try to use material with the same batch number. If using more than one batch number, be sure to mix the material from different batch numbers together to ensure color uniformity. Color uniformity cannot be guaranteed from batch to batch. To help prevent visual color differences during application, be sure to minimize the time between tie-ins. Use control joints or natural breaks as breaking points between mixes. Color differences can be caused by variations in temperature, humidity, substrate temperature, induction time, mil thickness, product reactivity and surface profile. Consult with a Simiron representative for help or questions with your project.

Clean Up:

Clean spills and spatters immediately with soap and warm water. Clean hands and tools immediately after use with soap and warm water.

Shipping Data:

Packaging	Premeasured 1-Gallon Kits
Base:	0.66 gallons 96 fl. oz. (2.50L) in a 1 gallon (3.78L) Container
Activator:	0.33 gallons 32 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 sheets before use. Safety precautions must be strictly followed during storage, disposal, 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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