



SIMTHANE WB

PRODUCT DESCRIPTION

SIMTHANE WB is a protective, self-crosslinking, clear, water-based polyurethane floor coating. This one-component product functions as well as many multi-component offerings and provides excellent adhesion, durability, chemical and stain protection along with excellent UV protection.

SIMTHANE WB can be used as a protective topcoat over solid epoxy, random flake, and metallic systems. **SIMTHANE WB** is available in three different sheen levels allowing versatility for a wide range of customer needs.

FEATURES & BENEFITS

- Self-Crosslinking Technology
- Easy To Apply
- UV Resistant
- Fast Drying
- Excellent Abrasion and Chemical Resistance
- Easy-to-Clean
- Low VOC
- Very Low Odor
- LEED COMPLIANT

RECOMMENDED USES

- Top or finish coat for solid or clear systems.
- Top or finish coat for metallic and random flake floors.
- Top or finish coat for floors broadcast to refusal with Decorative Chip, quartz, or silica sand after they are grouted.

PRODUCT INFORMATION

PRODUCT NAME	SIZE	COLOR/FINISH	ITEM NUMBER
Simthane WB Gloss	1-Gallon	Clear / Gloss	40003500
Simthane WB Semi-Gloss	1-Gallon	Clear / Semi-Gloss	40003517
Simthane WB Satin	1-Gallon	Clear / Satin	40003524

TECHNICAL DATA

PHYSICAL DATA	
Color	Clear
Components	1
Finish	Gloss, Semi-Gloss, Satin
pH	8.0 - 10.0
Solids	32 - 37%
Mixed Viscosity	50 - 150 cPs
VOC (EPA Method 24)	< 100 g/L
Weight per Gallon	8.51 lbs.

THEORETICAL COVERAGE	
Wet Mil (microns)	3 - 5 (76 - 127)
Coverage sq. ft./gal. (m ² /L)	320 - 534 (7.9 - 13.1)

	CURE TIMES @ 72°F (25°C) 50% RH *		
	@55°F/13°C	@72°F/22°C	@95°F/35°C
To Touch	45 - 60 minutes	30 - 45 minutes	15 - 30 minutes
To Recoat (Minimum)	6 hours	4 hours	2 hours
To Recoat (Maximum)	36 hours	24 hours	18 hours
Foot Traffic	6 hours	4 hours	3 hours
Heavy Traffic	72 hours	48 hours	36 hours
Full Cure	5 days	5 days	4 days

If applying a second coat, it must be applied within 24 hours. If recoat window is missed, the coating system will need to be sanded.



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PHYSICAL PERFORMANCE PROPERTIES

PHYSICAL PROPERTIES	TEST METHOD	RESULTS
Cold Crack	ISO 17233	< -30°C
Elongation	ASTM D882	350%
Impact Resistance	ASTM D2794	No Damage at 160 psi
Mandrel Bend	ASTM D522	Pass; No cracking
Pencil Hardness	ASTM D3363	2B
Sward Hardness	ASTM D2132	32
Taber Abrasion	ASTM D4060 CS-10 Wheel, 1,000 cycles, 1kg load	11 mg loss
Tensile	ASTM D882	6200 psi
UV Resistance	ASTM D4587	1,000 hours no damage

CHEMICAL RESISTANCE

CHEMICAL	RESULTS
10% Acetic Acid	no damage
2-Propanol	no damage
Ammonia	no damage
Gasoline	no damage
Methyl Ethyl Ketone	no damage
Toluene	no damage
Water	no damage

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. 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:

New concrete must be cured a minimum of 28 days and should meet moisture vapor transmission (MVT) and relative humidity (RH) thresholds as described previously Diamond grind or shotblast to a CSP 1-3 surface profile. Refer to SSPC-SP13/ NACE 6 or ICRI Technical Guideline No. 310.2. This product is a topcoat, typically applied over an epoxy primer and basecoat. 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. Vacuum and scrub or tack the area to remove all dust before topcoating.

PREVIOUSLY COATED SURFACES:

Clean surface to prevent any contaminants from being spread/redistributed to a greater area being prepared. Thoroughly sand/grind with 80/100 grit sandpaper, diamonds, or Diamabrush. Be sure to sand the previous coating until no gloss is visible. Vacuum and scrub or tack the area to remove all dust before topcoating.



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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 working time. Floor temperature must be at least 5 degrees over the current dew point.

APPLICATION EQUIPMENT

Rollers – Use a 3/8” shed-resistant woven roller cover with phenolic core for back-rolling, available from Simiron and other manufacturers of quality application tools such as Wooster Brush Company.

APPLICATION PROCEDURE

Apply the SIMTHANE WB using a brush and a microfiber or high quality shed-resistant 3/8” nap roller cover.

1. Pour material into a paint tray or work out of a five gallon pail.
2. Evenly apply the material onto the floor in a “W” pattern using a high quality shed-resistant 3/8” nap roller. Coverage should be 3-5 wet mils. Use a brush for small areas and edges. A microfiber pad can be used instead of a roller.
3. Be sure to maintain a “wet edge” to avoid any overlap marks. Do not back-roll when material begins to set up.
4. If desired or needed, a second coat may be applied after 4 hours but before 24 hours without needing to sand.

Applying thicker than recommended, allowing material to pool, or rolling into late may leave a white, hazy appearance.

CLEAN UP & DISPOSAL

Clean tools and equipment with soap and warm water immediately after use. Be sure to follow all local, state and federal regulations when disposing of materials.

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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.

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

- ⚠ Do not apply as a grout coat directly over full broadcasts of Decorative Chip, quartz, or silica sand.
- ⚠ Do not apply at a temperature or thickness not recommended.
- ⚠ 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.
- ⚠ Applying thicker than recommended, allowing material to pool, or rolling into late may leave a white, hazy appearance.
- ⚠ 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: 09/12/2024