MVB

MOISTURE VAPOR BARRIER

SIMIRON MVB is a 100% solids, two-component, epoxy primer designed for concrete floors with moisture vapor transmission (MVT) problems. This primer is applied directly to concrete to reduce the adhesion and blister effects of MVT.

SIMIRON MVB is resistant to MVT up to 25 lbs. per 1000 sq. ft. in 24 hours per ASTM F1869 or 95% relative humidity (RH) per ASTM F2170. This product is also available in two cure speed options.

FEATURES & BENEFITS:

- Reduces the effects of MVT
- Excellent Adhesion to Damp Concrete
- VOC Compliant Nationwide
- Low Odor
- Low Viscosity
- One coat application

RECOMMENDED USES:

- Use under all Simiron coating systems where MVT resistance is desired.
- New Concrete
- Concrete slabs that have shown issues in applied polymer flooring.

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PRODUCT INFORMATION

PRODUCT NAME	SIZE	COLOR/FINISH	ITEM NUMBER
MVB Base	2-Gallon	Clear	40004071
MVB Activator	1-Gallon	Clear	40009120
MVB Fast Activator	.86-Gallon	Clear	40011123

TECHNICAL DATA

PHYSICAL DATA	
Components	2 (Base & Activator)
Color	Clear
Finish	Gloss
Mix Ratio (by volume)	2 Base: 1 Activator (Fast 2.33: 1)
Curing Mechanism	Chemical reaction between components
Solids by Volume	100%
Solids by Weight	100%
Mixed Viscosity	1500 cPs
VOC (EPA Method 24)	0 g/L

THEORETICAL COVERAGE

Mixed **MVB** is applied at a nominal 16 mils (100 sq.ft. per gallon). A 1.5-Gallon Kit covers 150 sq.ft. and a 3-gallon mix covers 300 sq.ft. A 2.86-gallon mix of **MVB Fast** also covers 300 sq.ft. per gallon.

CURE TIMES	MVB	MVB FAST
Drying Schedule	72°F (25°C), 50% RH	72°F (25°C) 50% RH
Work Time	25-30 minutes*	15-20 minutes*
Tack Free	9 hours	6 hours
Light Foot traffic	24 hours	6 hours
Full Cure	5 days	5 days
Minimum Recoat	5 hours	3 hours
Maximum Recoat	24 hours **	24 hours **

**Higher temperatures will shorten pot-life and working time.*
***Apply a second coat of MVB or the basecoat within 24 hours of the initial coat of MVB. If the re-coat window is missed, the coating system will need to be sanded.*

PHYSICAL PERFORMANCE PROPERTIES

PHYSICAL PROPERTIES	TEST METHOD	RESULTS
Adhesion	ASTM D4541	> 400 psi (100% Concrete Failure)
Compressive Strength	ASTM D695	11,600 psi
Flexural Strength	ASTM 790	12,800 psi
Hardness, Shore D	ASTM D2240	78 - 80
Permeance	ASTM E96	0.064 Perms (grains/hour/ft^2)
Taber Abrasion (CS17 Wheel, 1000g Load, 1000 Cycles)	ASTM D4060	50 mg loss
Tensile Strength	ASTM D638	9,600 psi

SIMIRON™

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SCAN FOR MORE INFO