

## Vulkem® 350/345/346

### Elastomeric, Waterproof Traffic Bearing

#### Product Description

Vulkem 350/345/346 is a modified polyurethane Traffic Deck Coating System composed of a base coat (350), heavy duty intermediate coat (345) and a top coat (346). This unique waterproofing system is designed to have tenacious adhesion, extreme impact, and abrasion resistance along with remarkable chemical stability. The elastomeric properties of the System's components enable the complete assembly to give and work with the concrete slab, bridging the shrinkage cracks.

Vulkem 350 Base Coat is a one-part urethane membrane that bonds firmly to clean, dry concrete and metal. It retains its integrity even if substrate movement causes hair-line cracks of up to 1/16 inch (1.5mm). If cut or damaged, Vulkem 350 will prevent water migration between it and its substrate. Vulkem 350 is available in an R (roller) and an SL (self-leveling) grade for vertical and horizontal application.

Vulkem 345 intermediate coat is a two-part urethane that is applied after the Vulkem 350 base coat has cured. The intermediate coat is loaded with aggregate to give the system excellent impact, abrasion and chemical resistance.

Vulkem 346 Top Coat is an Aliphatic Polyurethane that is applied after the Vulkem 345 intermediate coat has cured. Interlaminar adhesion to Vulkem 345 is exceedingly strong. The top coat affords excellent abrasion resistance, UV stability and chemical resistance to complete the Vulkem Traffic Deck Coating System.

#### Basic Uses

Vulkem 350/345/346 is a cold-applied Traffic Deck Coating System designed for waterproofing concrete slabs and protecting occupied areas underneath from water damage. Additionally, the System will protect the concrete from damaging effects of water, deicing salts, chemicals, gasoline, oils and anti-freeze.

#### Applicable Standards

Conforms to ASTM C957.

#### Packaging

Vulkem 350: 5 Gallon (18.9 L) Pails, 55 Gallon (208.2 L) Drums.  
Vulkem 345: 5 Gallon (18.9 L) Pails, 55 Gallon (208.2 L) Drums.  
Vulkem 346: 2 Gallon (7.6 L) Pails, 5 Gallon (18.9 L) Pails, 55 Gallon (208.2 L) Drums.



#### Standard Colors

Vulkem 346 is available in Beige, Gray, Limestone, Maple and Slate Gray. Special colors available upon request.

#### Installation

Concrete shall be water cured and in place for at least 14 days, preferably 28 days. Concrete finish shall be a light steel trowel followed by a fine hair broom, or equivalent finish. New or existing slabs must be dry, clean, sound and free of all contaminants which may interfere with adhesion or proper curing. Chemical and/or mechanical surface preparation may be required.

Refer to the Vulkem 350/345/346 Application Instructions for specific application details. The techniques involved may require modification to adjust to the job-site conditions. Consult your Tremco Field Representative for specific design requirements.

#### Limitations

- Do not apply to damp or contaminated surfaces.
- Use with adequate ventilation.

#### Availability

Immediately available from your local Tremco Field Representative, Tremco Distributor or Tremco Warehouse.

#### Warranty

Tremco warrants its Coatings to be free of defects in materials, but makes no warranty as to appearance or color. Since methods of application and on-site conditions are beyond our control and can affect performance, Tremco makes no other warranty, expressed or implied, including warranties of MERCHANTABILITY and FITNESS FOR A PARTICULAR PURPOSE, with respect to Tremco Coatings. Tremco's sole obligation shall be, at its option, to replace or refund the purchase of the quantity of Tremco Coating proved to be defective and Tremco shall not be liable for any loss or damage.

## TYPICAL PHYSICAL PROPERTIES

Property	Test Method	Basecoat Vulkem 350	Interm. Coat Vulkem 345	Topcoat Vulkem 346
Solids (by weight)	ASTM D1353	88%	82%	72%
Drying Time @75°F, 50% RH	ASTM D 1640	30 mil film 24 hours	15 mil film 12 hours	9-11 mil film 24 hours
Flash Point	Set-A-Flash	112°F	95°F	85°F
Hardness (Shore A)	ASTM D 2240	25-35	60-70	85-95
Tensile Strength	ASTM D412 @75°F	320 psi	750 psi	3205 psi
Elongation	ASTM D 412	1040%	90%	120%
Adhesion (Peel Strength)	ASTM D903	Unprimed Concrete 30 lb/in	Vulkem 350 Basecoat 100% cohes.	Vulkem 345 Interm. Coat 100% cohes.
Abrasion Resistance (1000 cycles)	ASTM D4060	N/A	N/A	100mgms
MVT	ASTM E 96(B)	N/A	N/A	2.0 perms
Weathering Resistance	ASTM D 822 Weatherometer 350 hours	N/A	N/A	No effect
Salt Spray	ASTM B 117	N/A	N/A	No effect
Accelerated Aging	ASTM D573	No loss of elongation or tensile strength.	No loss of elongation or tensile strength.	No loss of elongation or tensile strength.
Adhesion (Pull-off)	ASTM D4541	400psi	N/A	N/A
		<b>ASTM C-957 Requirement</b>		<b>Typical Value</b>
Chemical Resistance (Tensile Retention)		Greater than		
Water		70%		98%
Ethylene Glycol (Anti-Freeze)		70%		97%
Mineral Spirits		45%		85%
Motor Oil		Not included as part of ASTM C-957		92%
Hydraulic Brake Fluid		Not included		84%
Deicing Chemicals		Not included		99%
7% Detergent Solution		Not included		100%
Fire Rating		UL Rating – Class A		

N/A = Not applicable to component, data is applicable to System or Topcoat only.

NOTE: These are typical values and should not be taken as specification items.



### Tremco Commercial Sealants & Waterproofing

3735 Green Road, Beachwood, OH 44122 // Phone: 216.292.5000 // 800.321.7906  
 220 Wicksteed Avenue, Toronto, ON M4H 1G7 // Phone: 416.421.3300 // 800.363.3213  
 1451 Jacobson Avenue, Ashland OH 44805 // Phone: 419.289.2050 // 800.321.6357