

Vulkem® 350NF/346/346 Elastomeric, Waterproof Traffic Deck Coating System

Product Description

Vulkem[®] 350NF/346/346 is a modified polyurethane traffic deck coating system composed of a base coat (350NF), heavy duty intermediate coat (346) and 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 350NF Base Coat is a single-component, low-odor, low-VOC, 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 in. (1.5mm). If cut or damaged, Vulkem 350NF will prevent water migration between it and its substrate. Vulkem 350NF is available in roller (R) and in self-leveling (SL) grade for vertical and horizontal application.

Vulkem 346 Intermediate Coat is a single-component urethane that is applied after the Vulkem 350NF 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 346 Intermediate Coat has cured. Interlaminar adhesion to Vulkem 346 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 350NF/346/346 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 350NF: 5-gal (18.9 L) pails, 55-gal (208.2 L) drums Vulkem 346: 2-gal (7.6 L) pails, 5-gal (18.9 L) pails, 55-gal (208.2 L) drums

Standard Colors

Vulkem 346 is available in Beige, Gray, Limestone, Maple and Slate Gray. Made-to-order and special colors also are available upon request.



ASTM 0 412: Tensile Strength of Top Coat Vulkem® 350 NF Self-Leveling Basecoat -OR- 350 NF Roller Grade Basecoat & 346 Topcoat ASTM 0 412: Tensile Strength of Top Coat Vulkem® 346 Tensile Strength: 4,180 psi; Elongation: 190% ASTM 0 4541: Adhesion of Base Coat Vulkem® 350 NF Self-Leveling Pull-off Adhesion: 346 psi Vulkem® 346 Abrasion Resistance: 18 mgms loss – mgms loss/1,000 cycles – mgm

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 ICRI #3 - #4 finish. New or existing slabs must be dry, clean, sound and free of all contaminates that may interfere with adhesion or proper curing. Chemical and/or mechanical surface preparation may be required.

Please refer to the Vulkem 350NF/346/346 Application Instructions for complete application details. The techniques involved may require modification to adjust to the job-site conditions. Consult your Tremco Sales Representative or Tremco Technical Services for site conditions and requirements.

Limitations

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

Availability

Immediately available from your local Tremco Sales Representative, Tremco distributor or warehouse.

Warranty

Tremco warrants its Products 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 Products. Tremco's sole obligation shall be, at its option, to replace or refund the purchase of the quantity of Tremco Products proven to be defective, and Tremco shall not be liable for any loss or damage.

Please refer to our website at www.tremcosealants.com for the most up-to-date Product Data Sheets.



TYPICAL PHYSICAL PROPERTIES

Property Solids (by weight)	Test Method ASTM D1353	Basecoat Vulkem 350NF ^{90-98%}	Interm. Coat Vulkem 346 ^{72%}	Topcoat Vulkem 346 ^{72%}
Drying Time @ 75° F (24° C), 50% RH	ASTM D1640	25 mil film 8-12 hr	15 mil film 6-12 hr	10-12 mil film 6-12 hr*
Flash Point	Set-A-Flash	>160° F	85° F	85° F
Hardness (Shore A)	ASTM D2240	45-60	85-95	85-95
Tensile Strength	ASTM D412 @ 75° F	220-460 psi	3205 psi	3205 psi
Elongation	ASTM D412	600-700%	120%	120%
Adhesion (Peel Strength)	ASTM D903	Unprimed Concrete 20-30 pli 100% cohesive failure	Vulkem 350NF Basecoat 100% cohesive failure	Vulkem 346 Interm. Coat 100% cohesive failure
Abrasion Resistance (1000 cycles)	ASTM D4060	N/A	N/A	50 mgms
Permeance	ASTM E96(B)	5-10 perms	3 perms	3 perms
Weathering Resistance	ASTM D822 Weatherometer 350 hours	N/A	N/A	No effect
Salt Spray	ASTM B117	N/A	N/A	No effect
Accelerated Aging	ASTM D573	No loss of elongation o tensile strength	or No loss of elongation or tensile strength	No loss of elongation or tensile strength
Adhesion (Pull-off)	ASTM D4541	200-400 psi	N/A	N/A
Chemical Resistance (Tensile Retention) Gro		ASTM C957 Requiremen Greater than 70%	ter than	
Ethylene Glycol (Antifreeze)		70%	98 <i>%</i> 97%	
Mineral Spirits		45%	85%	
		-	ncluded as part of ASTM C957 92%	
5		Not included	84%	
5		Not included		
7% Detergent Solution Fire Rating		Not included UL Rating – Class A	100%	
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		able to component, data is applic of 72 hr is required after cure befo		



Tremco Commercial Sealants & Waterproofing

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