



TECHNICAL DATA SHEET

VULKEM® 360NF+/ 346/346

Elastomeric, Waterproof Traffic
Deck Coating System

PRODUCT DESCRIPTION

Vulkem® 360NF+/346/346 is a modified polyurethane traffic deck coating system composed of a base coat (360NF+), heavy duty intermediate coat (346) 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® 360NF+ Base Coat is an enhanced, low-odor, low-VOC, water-cured urethane base coat designed to improve elongation, adhesion, and tensile strength over the original 360NF. It bonds firmly to clean, dry concrete and metal surfaces and maintains integrity with minor substrate movement or damage.

Vulkem 346 Intermediate Coat is an aliphatic one-component urethane that is applied after the Vulkem 360NF 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 one-component polyurethane that is applied after the Vulkem 346 intermediate coat has cured. Interlaminary adhesion to Vulkem 346 is exceedingly strong. The top coat affords excellent abrasion resistance, UV stability and chemical resistance to complete this Vulkem Traffic Deck Coating System.

BASIC USES

Vulkem 360NF+/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 the damaging effects of water, deicing salts, chemicals, gasoline, oils, and anti-freeze.

	
SEALANT • WATERPROOFING & RESTORATION INSTITUTE	
Issued to: Tremco Incorporated	
Product: Vulkem 350 NF Basecoat & Vulkem 346 Topcoat	
ASTM D 412: Tensile Strength of Top Coat	
Vulkem 346 Topcoat	
Tensile Strength: 3,236 psi;	
Elongation: 191%	Pass ✓
ASTM D 4541: Adhesion of Base Coat	
Vulkem 350 NF Basecoat	
Pull-off Adhesion: 259 psi	Pass ✓
ASTM D 4060: Abrasion Resistance of Top Coat	
Vulkem 350 NF Basecoat	
Abrasion Resistance: 48 mgms loss	
– mgms loss/1,000 cycles	Pass ✓
Validation Date: 04/27/22 – 04/26/27	
No. 422–VUL350	Copyright © 2022
DECK COATING VALIDATION	
www.swrionline.org	

FEATURES & BENEFITS

- Fast cure technology allows for same-day topcoating and return to service within 24 hours.
- Low odor and low VOC formulation is ideal for use in occupied or sensitive environments.
- **Enhanced tensile strength and elongation** improve crack bridging, impact resistance, and long-term performance.

- **Strong adhesion to concrete** without primer simplifies installation and reduces labor time.
- Excellent durability and weather resistance extend the life of pedestrian and vehicular systems.
- Compatible with Tremco sealants and topcoats, supporting seamless integration into Vulkem traffic coating systems.

AVAILABILITY

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

PACKAGING

Vulkem 360NF+: 5 gal (18.9 L) in a 6-gal (22.7-L) pail
Vulkem 346: 5-gal (18.9-L) pails, 55-gal (208.2-L) drums

COLORS

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

*Denotes special color.

LIMITATIONS

- Do not apply to damp or contaminated surfaces.
- Use with adequate ventilation.
- Substrate must be at least 5 °F (3 °C) above the measured dew point temperatures to avoid dew point conditions.

FIRE RATED ASSEMBLIES

ANSI/UL790 – Standard Test Methods for Fire Test of Roof Coverings
CAN/ULC-S107 – Methods of Fire Tests of Roof Coverings

APPLICABLE STANDARDS

Conforms to:

- ASTM C957
- CSA S413-14
- UL 790 – Class A Fire Rating for non-combustible substrates

INSTALLATION

Concrete shall be water-cured and attain a 4000-psi minimum compressive strength. Concrete finish shall be a light steel trowel followed by a fine-hair broom, or equivalent ICRI #3/- #4 finish. Moisture content in the concrete must be lower than 4.5% as measured by a Tramex CME 4 Moisture Meter. Depending on concrete construction and job site location, additional concrete testing may be required. Please contact your local Tremco Sales or Technical Representative.

Refer to the instructions for your specific system/application for installation details. The techniques involved may require modification to adjust to job-site conditions. Consult your Tremco Representative for specific design requirements.

Tremco Construction Products Group (CPG) brings together Tremco CPG Inc. and its Dryvit and Nudura brands; Willseal; Prebuck LLC; Tremco Barrier Solutions, Inc.; Weatherproofing Technologies, Inc. and its Pure Air Control Services and Canam Building Envelope Specialists offerings; and Weatherproofing Technologies Canada, Inc.



tremcosealants.com | 800.321.7906



Construction Products Group

3735 Green Rd. | Beachwood, OH 44122
800.321.7906 | tremcocpg.com

WARRANTY

A repair or replacement warranty is available on all Tremco products. Visit <https://www.tremcosealants.com/warranties/> for details.

TYPICAL PHYSICAL PROPERTIES				
PROPERTY	TEST METHOD	VULKEM 360NF+	VULKEM 346	VULKEM 346
Flash Point	Set-A-Flash	204.8°F (96 °C)	85 °F (29 °C)	85 °F (29 °C)
% Solids (by Weight)	ASTM D1353	90%	72%	72%
Drying Time @ 75 °F, 50% RH	ASTM D1640	25-40 mil film, 6 to 12 hr	15 mil film, 6 to 8 hr	15 mil film, 6 to 8 hr
Open to vehicular traffic		N/A	72 hr after cure	72 hr after cure
Weathering	ASTM D822	N/A	No effect	No effect
Salt Spray	ASTM B117	N/A	No effect	No effect
Viscosity	Brookfield C&P	8000 to 11000 cps	2000 to 3000 cps	2000 to 3000 cps
Elongation	ASTM D412	550%	120%	120%
Tensile Strength	ASTM D412	1015 psi	2800 psi	2800 psi
Hardness (Shore A)	ASTM D2240	50 to 70	85 to 95	85 to 95
Adhesion (Peel Strength)	ASTM D903	Unprimed concrete, > 50 pli, 100% cohesive failure	100% cohesive failure	100% cohesive failure
Abrasion Resistance (1000 cycles)	ASTM D4060	N/A	N/A	N/A
Adhesion (Pull-Off)	ASTM D4541	380 psi	50 mg	50 mg
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

* Accelerated aging test. 1 daily cycle of UV and water spray greatly exceeds 1 day of real-world exposure. Contact Tremco Technical Service or your local sales representative for more information.

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

NOTE: All Tremco Safety Data Sheets (SDS) are in alignment with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) requirements.

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