



TECHNICAL DATA SHEET

VULKEM® 350NF/346/346

Elastomeric, Waterproof Traffic Deck
Coating System

PRODUCT DESCRIPTION

Vulkem® 350NF/346/346 is a modified polyurethane traffic deck coating systems composed of a base coat (350NF), 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 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" (1.5 mm). If cut or damaged, Vulkem 350NF will prevent water migration between itself and the substrate. Vulkem 350NF is available in roller (R) and in self-leveling (SL) grade for vertical and horizontal application.

Vulkem 346 Intermediate Coat is an aliphatic one-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 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 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 the damaging effects of water, deicing salts, chemical, gasoline, oils and anti-freeze.

FEATURES & BENEFITS

- Fast cure through time allows for use 72 hr after installation.
- Mildew and fungus resistance safeguards concrete surfaces against environmental contaminants.
- Excellent durability and UV resistance extends the useful life of vehicular systems.
- Recoatable and compatible with other Tremco sealants and expansion joints, which enhance waterproofing protection with full system compatibility.

AVAILABILITY

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

PACKAGING

Vulkem 350NF: 5-gal (18.9-L) pails, 55-gal (208.2-L) drums

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.

FIRE RATED ASSEMBLIES

ANSI/UL790 – Standard Test Methods for Fire Tests of Roof Coverings

CAN/ULC-S107 – Methods of Fire Tests of Roof Coverings

INSTALLATION

Concrete shall be water-cured and attain a 4000 psi minimum compressive strength. Concrete finish shall be a light steel trowel by a fine-hair broom, or equivalent ICRI #2-#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.

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

APPLICABLE STANDARDS

Conforms to:

- ASTM C957
 - US 790 – Class A Rating for non-combustible substrates
 - CSA S413-14
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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.
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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 350NF	VULKEM 346	VULKEM 346
Flash Point	Set-A-Flash	>160 °F (71 °C)	85 °F (29 °C)	85 °F (29 °C)
% Solids (by Weight)	ASTM D1353	90 to 98%	72%	72%
Drying Time @ 75 °F, 50% RH	ASTM D1640	25 mil film, 4 to 6 hr	15 mil film, 6 to 8 hr	10-12 mil film, 6 to 8 hr
Open to Vehicular Traffic		N/A	N/A	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	4000 to 6000 cps	2000 to 3000 cps	2000 to 3000 cps
Elongation	ASTM D412	600 to 700%	120%	120%
Tensile Strength	ASTM D412	220 to 460 psi	2800 psi	2800 psi
Hardness (Shore A)	ASTM D2240	45 to 60	85 to 95	85 to 95
Adhesion (Peel Strength)	ASTM D903	Unprimed concrete, 20 to 30 pli, 100% cohesive failure	100% cohesive failure	100% cohesive failure
Adhesion (Pull-Off)	ASTM D4541	150 to 200 psi	N/A	N/A
Abrasion Resistance (1000 cycles)	ASTM D4060	N/A	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
Tear Strength	ASTM D624	N/A	309 pli	309 pli

*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.

V350NF346346-DS/0323

Tremco Construction Products Group (CPG) brings together the Commercial Sealants & Waterproofing and Roofing & Building Maintenance divisions of Tremco CPG Inc.; Dryvit and Willseal brands; Nudura Inc.; Prebuck LLC; Tremco Barrier Solutions, Inc.; Weatherproofing Technologies, Inc.; Weatherproofing Technologies Canada, Inc.; and Pure Air Control Services, Inc.



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