TECHNICAL DATA SHEET

VULKEM® 350/950NF/951NF

Elastomeric, Waterproof Traffic Deck Coating System

PRODUCT DESCRIPTION

Vulkem® 350/950NF/951NF is a modified polyurethane traffic deck coating system composed of a base coat (350), heavy duty intermediate coat (950NF) and a top coat (951NF). This unique waterproofing system is designed to have tenacious adhesion, extreme impact 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 single-component 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 350 will prevent water migration between itself and the substrate. Vulkem 350 is available in roller (R) and in self-leveling (SL) grade for vertical and horizontal application.

Vulkem 950NF Intermediate Coat is a two-component 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 951NF Top Coat is an aliphatic two-component polyurethane that is applied after the Vulkem 950NF intermediate coat has cured. Interlaminary adhesion to Vulkem 950NF 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 350/950NF/951NF is a cold-applied traffic deck coating system designed for waterproofing concrete slabs and protecting occupied areas underneath from water damage. Additionally, the system with protect the concrete from the damaging effects of water deicing salts, chemicals, gasoline, oils, and anti-freeze.

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Issued to: Tremco Incorporated
Product: Vulkem 360 NF Basecoat & Vulkem 951 NF Topcoat

ASTM D 412: Tensile Strength of Top Coat
Vulkem 951 NF Topcoat
Tensile Strength: 5,394 psi;
Elongation: 294% Pass ✔

ASTM D 4541: Adhesion of Base Coat
Vulkem 360 NF Basecoat
Pull-off Adhesion: 363 psi Pass ✔

ASTM D 4060: Abrasion Resistance of Top Coat
Vulkem 360 NF Basecoat
Abrasion Resistance: 20 mgms loss
– mgms loss/1,000 cycles Pass ✔

Validation Date: 04/27/22 – 04/26/27
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Issued to: Tremco CPG Inc.
Product: Vulkem® 350FC/Vulkem 951NF

ASTM D 412: Tensile Strength of Top Coat
Vulkem® 951NF Topcoat
Tensile Strength: 4,392 psi;
Elongation: 258% Pass ✔

ASTM D 4541: Adhesion of Base Coat
Vulkem® 350FC SL
Pull-off Adhesion: 472 psi Pass ✔

ASTM D 4060: Abrasion Resistance of Top Coat
Vulkem® 951NF
Abrasion Resistance: 12 mg loss
– mg loss/1,000 cycles Pass ✔

Validation Date: 2/10/23 – 2/09/28
No. VUL350–VUL951 *Copyright © 2023*

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FEATURES & BENEFITS

- Fast cure through time allows for use 24 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 350: 5-gal (18.9-L) pails, 55-gal (208.2-L) drums

Vulkem 950NF: Total of 4.2-gal kit – Part A 3.25 gal (12.3 L) in a 5-gal (18.9-L) pail, Part B 0.95 gal (3.6 L) in a 1-gal pail.

Vulkem 951NF: Total of 4.6-gal (17.4-L) kit–Part A 3.64-gal (13.8 L) in a 5-gal (18.9-L) pail, Part B 1 gal (3.8 L) in a 1-gal pail.

COLORS

Vulkem 951NF is available in Beige, Gray, Limestone, Black, Slate Gray, *White, *Maple, and *Charcoal. Made-to-order and special colors are also available upon request.

*Denotes special color.

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 #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 350/950NF/951NF Application Instructions for complete application details. The techniques involved may require modification to adjust to the job site conditions. Consult your Tremco Sales Representatives or Tremco Technical Service for site conditions and requirements.

APPLICABLE STANDARDS

Conforms to:

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

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.

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 350	VULKEM 950NF	VULKEM 951NF
Flash Point	Set-A-Flash	112 °F (44.4 °C)	>200 °F (93 °C)	>200 °F (93 °C)

TYPICAL PHYSICAL PROPERTIES				
% Solids (by Weight)	ASTM D1353	79%	99%	80 to 85%
Drying Time @ 75 °F, 50% RH	ASTM D1640	25 mil film, 12 hr	12 mil film, 2 to 4 hr	12 mil film, 2 to 4 hr
Open to Vehicular Traffic		N/A	N/A	24 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 10000 cps	2000 cps	2500 cps
Elongation	ASTM D412	1040%	100%	145%
Tensile Strength	ASTM D412	320 psi	4200 psi	4500 psi
Hardness (Shore A)	ASTM D2240	60	75 shore D	50 shore D
Adhesion (Peel Strength)	ASTM D903	Unprimed concrete, 30 pli, 100% cohesive	100% cohesive failure	100% cohesive failure
Adhesion (Pull-Off)	ASTM D4541	280 psi	N/A	N/A
Abrasion Resistance (1000 cycles)	ASTM D4060	N/A	70 mg	33mg
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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