Vulkem® 350/951NF/951NF

Elastomeric, Waterproof Traffic Deck Coating System

Product Description

Vulkem® 350/951NF/951NF is a modified polyurethane traffic deck coating system composed of a base coat (350), heavy duty intermediate coat (951NF) and a top coat (951NF). 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 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 951NF Intermediate Coat is an aliphatic 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 951NF intermediate coat has cured. Interlaminar adhesion to Vulkem 951NF 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 350/951NF/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 will protect the concrete from the damaging effects of water, deicing salts, chemicals, gasoline, oils and anti-freeze.

Features and 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 951NF: Total of 4.6-gal kit – Part A 3.75-gal (14.2 L) in a 5-gal (18.9-L) pail, Part B 0.85 gal (3.2 L) in a 1-gal pail.

Colors

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

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 350/951NF/951NF 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 conditions and requirements.

Applicable Standards

Conforms to:

- ASTM C957
- Conforms to 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.

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 to refund the purchase price 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.

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

TYPICAL PHYSICAL PROPERTIES

PROPERTY	TEST METHOD	VULKEM 350	VULKEM 951NF	VULKEM 951NF
Flash Point	Set-A-Flash	112 °F (44.4 °C)	>200 °F (93 °C)	>200 °F (93 °C)
% Solids (by Weight)	ASTM D1353	79%	80 to 85%	80 to 85%
Drying Time @ 75F, 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	2500 cps	2500 cps
Elongation	ASTM D412	1040%	145%	145%
Tensile Strength	ASTM D412	320 psi	4500 psi	4500 psi
Hardness (Shore A)	ASTM D2240	60	50 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)	ATSM D4060	N/A	33 mg	33 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.

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