

## Vulkem® 950NF & 951NF Topcoats

### Neighbor-Friendly, Low-Odor/Low-VOC Topcoats for Pedestrian and Vehicular Application

#### Product Description

Vulkem® 950NF and 951NF Topcoats are high-performance, Neighbor-Friendly, two-part polyurethane coatings for vehicular (heavy duty) and pedestrian (medium duty) applications where low-odor and extremely durable coatings are desired. These topcoats are applied over a cured Vulkem basecoat.

Vulkem 950NF Topcoat can be used both as an intermediate coat for the Tremco heavy duty system and a topcoat for interior applications. Vulkem 951NF is a low-odor topcoat designed for exterior applications and for use over Vulkem 950NF in heavy duty applications.

The recommended basecoats for use with Vulkem 950NF and Vulkem 951NF are Vulkem 350NF and Vulkem 360NF. Vulkem 350NF is a single-component, fast-curing, low-odor polyurethane basecoat that possesses tenacious adhesion primarily to clean and dry concrete, but also to wood and metal. Vulkem 360NF is a low-odor, VOC-compliant, water-cured, rapid-setting polyurethane basecoat that also possesses tenacious adhesion primarily to clean and dry concrete, but also to wood and metal.

#### Basic Uses

Medium Duty applications consist of a 25-mil coat of Vulkem 360NF and a 12-mil coat of one of the Vulkem NF topcoats with backrolled aggregate. This deck coating system is designed for waterproofing plaza decks, recreation decks, balconies, mechanical rooms, stadiums, parking stalls and similar primarily concrete and masonry applications requiring an elastomeric waterproofing system.

Heavy Duty applications consist of a 25-mil coat of Vulkem 360NF and two 12-mil coats of one of the Vulkem NF topcoats with backrolled aggregate. This deck coating system is a cold applied vehicular traffic deck coating system designed for waterproofing concrete slabs and protecting occupied areas underneath from water damage. Additionally, the system will protect concrete from damaging effects of water deicing salts, chemicals, gasoline, oils and antifreeze.

#### Features

- Low-odor.
- Quick turnaround time.
- Extremely tough topcoats.
- Reduced number of coats for both the medium and heavy duty systems.
- Topcoats need only 24 hours cure prior to vehicular traffic, 12 hours cure prior to foot traffic.

#### Applicable Standards

Conforms to ASTM C957.

#### Packaging

Vulkem 360NF Basecoat - 5 gal. (18.9L) in an Imperial 5 gal. (22.7L) pail

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

Vulkem 951NF Topcoat - Total of 4.6 gal. kit - Part A 3.75 gal. (14.2L) in a 5 gal. (18.9L) pail, Part B 0.85 gal. (3.2L)

#### Color

Vulkem 950NF or Vulkem 951NF topcoats are available in Gray, Slate Gray or Beige. High-reflectivity, Energy-Star™ White is available as a made-to-order. Vulkem 951NF also comes in Clear (pedestrian only) and Black. Other colors are available via special ordering.

#### Installation

Concrete shall be water cured and in place according to the industry standard of 28 days, which is our recommendation, prior to installing the coating materials. Concrete finish shall be a light steel trowel followed by a fine hair broom finish, or equivalent finish. New or existing slabs must be dry, clean, sound and free of all contaminants which may interfere with adhesion or proper curing.

Chemical and/or mechanical surface preparation may be required.

Refer to Vulkem 360NF/950NF/951NF Application Instructions for specific application details. For specialty applications such as roof decks, tennis courts and others, visit [www.tremcosealants.com](http://www.tremcosealants.com). The techniques may require modifications to adjust to the job-site conditions. Consult your local Tremco Sales Representative or Tremco Technical Services for specific design requirements.

Note: For installation of 951NF - Clear, please refer to the Color-quartz application instructions for Vulkem 951NF - Clear.

#### Availability

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

#### 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 refund the purchase of the quantity of Tremco Products proven to be defective and Tremco shall not be liable for any loss or damage.

## TYPICAL PHYSICAL PROPERTIES

Property	Test Method	360NF Base Coat	950NF Top Coat	951NF Top Coat
Tensile	ASTM D412	275 psi	4200 psi	5000+ psi
Elongation	ASTM D412	500%	100%	145%
100% Modulus	ASTM D412	130 psi	N/A	N/A
Hardness	ASTM C661	40-50 Shore A	75 Shore D	50 Shore D
Permeability	ASTM E96	0.12 metric perms	N/A	N/A
Viscosity, cps	Brookfield HBT	8-10,000	2000	2500
Cure Time at 77° F, 50% R.H.	ASTM D1640	6 hrs. min.	24 hours, traffic	24 hours, traffic
Solids Content	ASTM C792	>90%	99+%	80-85%
Crack Bridging	N/A	1/8"	N/A	N/A
Tear Strength, psi	ASTM D642	60-80	N/A	N/A
Peel Strength to Base Coat	N/A	N/A	100% c.f.	100% c.f.
Peel Strength, pli (concrete)	ASTM C794	40-45	Concrete Fail.	N/A
Peel Strength, pli (plywood)	ASTM C794	35-40	N/A	N/A
Peel-off Adhesion	ASTM D4541	350 psi	N/A	N/A
Abrasion Resistance	120 psi cycles	N/A	100,000	100,000
Abrasion Loss (1000 cycles)	ASTM D4060	N/A	N/A	33mgms

## TYPICAL PHYSICAL PROPERTIES

Property	Test Method	Vulkem 350NF (SL)	Vulkem 350NF (R)
Tensile	ASTM D412	440-460 psi	220-240 psi
Elongation	ASTM D412	600-700%	600-700%
S100	ASTM D412	220-260 psi	110-120 psi
Hardness, Shore A	ASTM C661-83	50-60	45-50
Peel Strength – On Concrete	ASTM C794	25 – 30pli, 100% Cohesive Failure	20-25pli, Cohesive Failure
Permeance	ASTM E96	10 perms	5 perms
Vertical Hold		N/A	>50 mils
Weight % Solids		90-92%	97-98%
Non-Volatile Content	ASTM D1353	<90 g/l	<20 g/l
Viscosity, cps	Brookfield C&P	4-6000 cps	15,000-20,000 cps
Cure Time to Recoat @ 77°F (25°C) 50% R.H.	ASTM D1640	4-6 hours	5-7 hours
Flash Point	Setaflash	160°F	>200°F
Pull-Off Adhesion	ASTM D4541	min 300 psi	min 200 psi



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