



# TECHNICAL DATA SHEET

## VULKEM® 350/ EPOXY WC/951NF

Epoxy Wear Coat,  
Waterproof Traffic Deck Coating System

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### PRODUCT DESCRIPTION

Vulkem® 350/Epoxy WC/951NF is a polyurethane traffic deck coating system featuring an epoxy wear course. It is composed of a base coat (350), heavy duty, aggregate loaded, intermediate coat (Epoxy WC) 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 Epoxy WC is a two-part, (1:1) high solids, low odor, VOC compliant, epoxy wear coat applied after the Vulkem 350 Base Coat has cured. The intermediate coat is loaded with aggregate to give the system excellent impact and abrasion resistance.

Vulkem 951NF Top Coat is an aliphatic, low VOC, two-component polyurethane that is applied after the Vulkem Epoxy WC intermediate coat has cured. Interlaminary adhesion to Vulkem Epoxy WC is exceedingly strong. The top coat affords excellent abrasion resistance, UV stability and chemical resistance to complete this Vulkem Traffic Deck Coating System.

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### BASIC USES

Vulkem 350/Epoxy WC/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. It is ideal for high volume traffic areas.

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### FEATURES & BENEFITS

- Mildew and fungus resistance safeguards concrete surfaces against environmental contaminants.
- Low odor and low level of Volatile Organic Compounds (VOC) provides for use in neighbor friendly, inhabited structures.
- Excellent durability and UV resistance extends the useful life of vehicular systems.
- Superior aggregate retention.
- Recoatable and compatible with other Tremco sealants, which enhance waterproofing protection with full system compatibility.

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### AVAILABILITY

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

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### PACKAGING

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

Vulkem Epoxy WC: 10-gal (37.9-L) kit – Part A: 1 5-gal (18.9-L) pail, Part B: 1 5-gal (18.9-L) 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.

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## COLORS

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

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## APPLICABLE STANDARDS

Conforms to:

- ASTM C957
- Conforms to UL 790 - Class A Rating for non-combustible substrates.
- CSA S413-14

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## 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/Epoxy WC/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.

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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 350  | VULKEM EPOXY WC                              | VULKEM 951NF                                 |
|-----------------------------------|----------------|---|--|--|
| Flash Point                       | Set-A-Flash    | 112 °F (44 °C)                                      | >200 °F (93 °C)                              | >200 °F (93 °C)                              |
| % Solids (by weight)              | ASTM D1353     | 79%   | 100%   | 80 to 85%                                    |
| Drying Time @ 75 °F, 50% RH       | ASTM D1640     | 25 mil film, 12 hr                                  | 12 mil film, 10 ± 2 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   | N/A  | No effect                                    |
| Salt Spray                        | ASTM B117      | N/A   | N/A  | No effect                                    |
| Viscosity                         | Brookfield C&P | 8000 to 10000 cps                                   | 300-400 cps                                  | 2500 cps                                     |
| Elongation                        | ASTM D412      | 1040%   | 30%  | 145%   |
| Tensile Strength                  | ASTM D412      | 320 psi   | 3000 psi                                     | 4500 psi                                     |
| Hardness (Shore A)                | ASTM D2240     | 60  | 72 (Shore D)                                 | 50 (Shore D)                                 |
| Adhesion (Peel Strength)          | ASTM D903      | Unprimed Concrete, 30 pli,<br>100% cohesive failure | 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   | N/A  | 33 mg  |
| Accelerated Aging*                | ASTM D573      | No loss of elongation or<br>tensile strength        | No loss of elongation or<br>tensile strength | No loss of elongation or<br>tensile strength |
| Tear Strength                     | ASTM D624      | N/A   | 330 pli                                      | 480 pli                                      |

\*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](http://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.

V350EPOXYWC951NF-DS/1123

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