



TECHNICAL DATA SHEET

VULKEM® 350/950NF/950NF

Elastomeric, Waterproof Indoor Traffic
Deck Coating System

PRODUCT DESCRIPTION

Vulkem® 350/950NF/950NF is a modified polyurethane traffic deck coating system composed of a base coat (350), heavy duty intermediate coat (950NF) and a top coat (950NF). 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 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 950NF Top Coat is a two-component polyurethane that is applied after the Vulkem 950NF intermediate coat has cured. Interlaminar adhesion to Vulkem 950NF is exceedingly strong. The top coat affords excellent abrasion resistance and chemical resistance to complete this Vulkem Traffic Deck Coating System.

BASIC USES

Vulkem 350/950NF/950NF is a cold-applied traffic deck coating system designed for waterproofing concrete slabs and protecting occupied areas underneath from water damaged. 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 24 hr after installation.
- Mildew and fungus resistance safeguards concrete surfaces against environmental contaminants.
- Excellent durability extends the useful life of vehicular systems. Ideal for indoor parking structures.
- 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 Tremco 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.

COLORS

Vulkem 950NF is available in Gray, Slate Gray, Charcoal, Black, *White, *Limestone, *Beige, and *Maple. Made-to-order and special colors 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/950NF 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.

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 950NF |
| Maximum V.O.C. | Method 310 | 314 g/L | 1 g/L | 1 g/L |
| Flash Point | Set-A-Flash | 112 °F (44.4 °C) | 200 °F (93 °C) | 200 °F (93 °C) |
| % Solids (by Weight) | ASTM D1353 | 79% | 99% | 99% |
| Drying Time @ 75 °F, 50% RH | ASTM D1640 | 25 mil film, 12 hr | 12 mil film, 2 hr | 12 mil film, 2 hr |
| Open to vehicular traffic | | N/A | N/A | 12 hr after cure |
| Weathering | ASTM D822 | N/A | N/A (indoor use only) | N/A (Indoor use only) |
| Salt Spray | ASTM B117 | N/A | No effect | No effect |
| Viscosity | Brookfield C&P | 8000 to 10000 cps | 2000 cps | 2000 cps |
| Elongation | ASTM D412 | 1040% | 100% | 100% |
| Tensile Strength | ASTM D412 | 320 psi | 4200 psi | 4200 psi |
| Hardness (Shore A) | ASTM 2240 | 60 | 75 shore D | 75 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 | 70 mg |
| Accelerating 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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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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