

Product Description

Vulkem® 350NF/351 is a composite waterproofing system comprised of tough-curing liquid polyurethane. It cures to form a rubber membrane surface that provides a lasting and easy-to-clean coating. Textured surfaces for pedestrian traffic will use an aggregate-laden top membrane to aid in wear and slip resistance. Vulkem 350NF/351 may be used to apply a seamless, monolithic waterproof membrane to concrete and primed metal surfaces.

Vulkem 350NF Base Coat is a single-component, low odor, low VOC, 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 350NF will prevent water migration between itself and the substrate. Vulkem 350NF is available in roller (R) and in self-leveling (SL) grade for vertical and horizontal application.

Vulkem 351 Top Coat is an aliphatic, single-component, polyurethane, which when used in conjunction with the recommended aggregate, creates a tough, aesthetically appealing, skid resistant, wearing surface that forms a strong interlaminar bond to the Vulkem 350NF basecoat.

Basic Uses

Vulkem 350NF/351 is ideal for plazas, recreation decks, balconies, mechanical rooms, stadiums, athletic surfaces, and similar applications requiring an elastomeric waterproofing system.

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 extend the useful life of pedestrian systems.
- Recoatable and compatible with other Tremco sealants, which enhances waterproofing protection with full system compatibility.

Availability

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

Packaging

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

Vulkem 351: 5-gal (18.9-L) pails, 55-gal (208.2-L) drums

Colors

Vulkem 351 is available in Beige, Gray, Limestone, Maple, Slate Gray, Black, and White. Special colors are available upon request.

Fire Rated Assemblies

- ANSI/UL790 - Standard Test Methods for Fire Tests of Roof Coverings
- CAN/ULC-S107 - Methods of Fire Tests of Roof Coverings

Installation

Concrete shall be water-cured and attain a 3000 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 using 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 350NF/351 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 Services for site conditions and requirements.

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 350NF | VULKEM 351 |
|-----------------------------------|----------------|---|---|
| Flash Point | Set-A-Flash | >160 °F (71 °C) | 85 °F (29 °C) |
| % Solids (by Weight) | ASTM D1353 | 90 to 98% | 72% |
| Drying Time @ 75°F, 50% RH | ASTM D1640 | 25-40 mil film, 12 hr | 15 mil film, 6 to 8 hr |
| Open to foot traffic | | 4 to 6 | 24 hr after cure |
| Weathering | ASTM D822 | N/A | No effect |
| Salt Spray | ASTM B117 | N/A | No effect |
| Viscosity | Brookfield C&P | 4000 to 6000 cps | 2000 to 3000 cps |
| Elongation | ASTM D412 | 600 to 700% | 120% |
| Tensile Strength | ASTM D412 | 220 to 460 psi | 2800 psi |
| Hardness (Shore A) | ASTM D2240 | 45 to 60 | 85 to 95 |
| Adhesion (Peel Strength) | ASTM D903 | Unprimed Concrete, 20 to 30 pli, 100% cohesive failure | 100% cohesive failure |
| Adhesion (Pull-Off) | ASTM D4541 | 150 to 200 psi | 200 to 400 psi |
| Abrasion Resistance (1000 cycles) | ATSM D4060 | N/A | 50 mg |
| Accelerated Aging | ASTM D573 | 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.



1117/350NF/351DS-DC

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