VULKEM® 171/350NF/351
VULKEM PEDESTRIAN AND WATERPROOFING SYSTEM

DESCRIPTION
Vulkem 171/350NF/351 is an attractive composite waterproofing system comprised of tough-curing liquid polyurethane. It cures to form a rubber membrane surface that provides a lasting eye-appealing and easy-to-clean coating. Textured surfaces for pedestrian traffic features use of an aggregate-laden top membrane to aid in wear and slip resistance. Vulkem 171/350NF/351 may be used to apply a seamless, monolithic waterproof membrane to concrete.

Vulkem 350NF is a one part, low odor, low VOC urethane membrane that bonds firmly to clean, dry concrete. It retains its integrity even if substrate movement causes hairline cracks of up to 1/16+ (1.6mm). Vulkem 350NF is available in an R (roller) and an SL (self-leveling) grade for vertical or horizontal use.

Vulkem 351 is applied after the Vulkem 350NF base coat has cured. The finished top layer affords excellent abrasion resistance and outstanding elongation and recovery to expand and contract with substrates. Interlaminary adhesion to Vulkem 350NF is exceedingly strong.

BASIC USES
Vulkem 171/350NF/351 is a cold-applied coating system designed for waterproofing plaza decks, pedestrian walkways, balconies and other areas needing a waterproof and wear-resistant coating.

PACKAGING
- Vulkem 350NF Basecoat .
  5 gallon (18.9 L) Pails
  55 gallon (208 L) Drums

- Vulkem 351 Topcoat .
  5 gallon (18.9 L) Pails
  55 gallon (208 L) Drums

COLOURS
Vulkem 351 is available in Beige, Gray, Limestone, Maple, Slate Gray, Black and White.

INSTALLATION
Refer to the Vulkem 171/350NF/351 Application Instructions for full details.

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

LIMITATIONS
- Do not apply over damp or contaminated surfaces.
- Use with adequate ventilation.

TECHNICAL SERVICE
Technical advice or suitability of material for specific application and end-use requirements is available from the manufacturer. Refer to Material Safety Data Sheet (MSDS) and label for precautionary information.

TREMCO QUALITY
Tremco reserves the right to continue to improve its product technology. Information contained in the Data Sheet could be superceded by changes in performance characteristics. These changes, should they occur, will not be to the detriment of the product.

WARRANTY
Tremco warrants its Vulkem Coatings to be free of defects in materials, but makes no warranty as to appearance or colour. 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 Vulkem Coatings. Tremco's sole obligation shall be, at its option, to replace or to refund the purchase price of the quantity of Vulkem Coatings proved to be defective and Tremco shall not liable for any loss or damage.

TYPICAL PHYSICAL PROPERTIES

Property	Test Method	VULKEM 350 NF - SL Base coat	VULKEM 351 Top coat
Tensile	ASTM D-412	440-460 psi (3.03 . 3.17 Mpa)	3000 psi (20.7 Mpa)
Elongation	ASTM D-412	600 . 700%	140%
S_{100}	ASTM D-412	220 . 260 psi (1.52 . 1.79 Mpa)	2200 psi (15.2 Mpa)
Hardness Shore A	ASTM-C661-83	50 . 60	75
Peel Strength (on concrete)	ASTM C-794	25 . 30 pli 100% cohesive	100% cohesive to Vulkem 350NF
Permeability	E-96	0.15 metric perms	0.06 metric perms
Non Volatile Content	ASTM D-1353	< 90 g/l	63%
Viscosity, cps	Brookfield HBT	4 . 6,000	2 . 3,000
Cure Time @ 77°F (25°C) 50% R.H.	ASTM D-1640	4 . 6 hours	24 hours maximum
Flash Point	Setaflash	160°F (71.1°C)	82°F (27.8°C)

	ASTM C 957 Requirement	Typical Value
Chemical Resistance (Tensile Retention)	Greater than	
Water	70%	98%
Ethylene Glycol (Antifreeze)	70%	97%
Mineral Spirits	45%	85%
Motor Oil	Not included as part of ASTM C 957	92%
Hydraulic Brake Fluid	Not included	84%
Deicing Chemicals	Not included	99%
7% Detergent Solution	Not included	100%
Fire Rating	UL Rating . Class A	
N/A = Not applicable to component, data is applicable to System or Topcoat only. Note: These are typical values and should not be taken as specification items.		