

TREMCO

Vulkem® 450/451

Elastomeric Waterproofing System

S

Product Description:

Vulkem 450/451 System combines a flexible and durable urethane basecoat (Vulkem 450) with an ultra-violet and ozone resistant topcoat (Vulkem 451) to yield an elastomeric and waterproofing seamless coating. The flexibility and elasticity of the Vulkem 450/451 System allows for normal movement without surface cracking. The one-part basecoat and topcoat offer ease of application and substantial labor saving over conventional two-component products.

Vulkem 450 is a one-part urethane membrane that bonds firmly to clean, dry concrete, wood or metal. It retains its integrity even if substrate movement causes hairline cracks of up to 1/16 inch (1.5mm). Vulkem 450 can be recoated after 24 hour cure at 75°F (23.9°C), 50% R.H. A Quick-Cure Catalyst can be utilized for a fast track application.

Vulkem 451 is applied after the Vulkem 450 basecoat has cured. The finished top layer affords excellent abrasion resistance, and outstanding elongation and recovery to expand and contract with substrates. Interlaminar adhesion to Vulkem 450 is exceedingly strong.

Basic Uses:

Vulkem 450/451 System is ideal for waterproofing and protection of free form surfaces, decks, exposed panels and walk decks of metal, concrete and plywood. The system will withstand ponding water that may occur in such areas. Vulkem 450/451 offers excellent sag resistance at specified coverage rates which is ideal for both horizontal and sloped surfaces.

Limitations:

- Do not apply to damp or contaminated surfaces.
- Do not use on Parking Garage Decks.
- Use with adequate ventilation.

Standard Colors:

Vulkem 451 is available in Beige, Gray, Limestone, Maple, Slate Gray, Black and White.

Packaging:

Vulkem 450: 5 Gallon (19 L) Pails, 55 Gallon (208 L) Drums.
Vulkem 451: 2 Gallon (7.6 L) Pails, 5 Gallon (19 L) Pails, 55 Gallon (208 L) Drums.

Installation:

Concrete shall be water cured and in place for at least 14 days, preferably 28 days. Concrete finish shall be a light steel trowel followed by a fine hair broom, 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.

The Vulkem 450 basecoat is applied at the rate of 25 square feet per gallon (.61 m²/L) yielding approximately 60 wet mils (1.5mm) thickness. The coating is squeegee applied, followed by back rolling to evenly distribute the material.

The Vulkem 451 topcoat is applied with a medium nap roller at the rate of 300 square feet per gallon (7.5 m²/L) to yield approximately 5 wet mils (.12mm) thickness.

Availability:

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



Warranty:

Tremco warrants its Vulkem Coatings 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 Vulkem Coatings. Tremco's sole obligation shall be, at its option, to replace, or refund the purchase of the quantity of Vulkem Coating proved to be defective and Tremco shall not be liable for any loss or damage.

TYPICAL PHYSICAL PROPERTIES

Property	Test Method	Vulkem 450	Vulkem 451
Specific Gravity	ASTM D 1475	1.32	1.06
Weight per Gallon	ASTM D 1475	11 lbs. (5.0kgs)	8.87 lbs. (4.0kgs)
Weight	ASTM D 1353	83%	79%
Viscosity, CPS	Brookfield #4 Spindle @20 rpm	20,000	1,500
Dry Time	ASTM D 1640	Tack free-24 hrs. Rubbery cure 48hrs.	Tack free-16 hrs. Cure-24 hrs.
Flash Point	ASTM D 1310	101°F (38°C)	82°F (28°C)
Hardness, Shore A	ASTM D 2240	37	80
Tensile Strength	ASTM D 412	320 psi (2.2MPa)	3480 psi (24.0MPa)
Elongation	ASTM D 412	450%	250%
Adhesion in Peel	ASTM D 903	29 lb./in. (129N)	100% cohesive to Vulkem 450
MVT	ASTM E 96, B	1.58 m.p.	.5 m.p.
Weather Resistance	ASTM D 822	N.A.	Excellent
Salt Spray	ASTM B 117	N.A.	No Effect
Abrasion Resistance	ASTM C 501 20 REV., CS 17 wheel 1000 gm. wt.	N.A.	.5 mg loss
Tear Resistance	ASTM D 1004	200 pli (889N)	225 pli (1001N)

*Vulkem 450 is "Miami-Dade County product control approved."



For MSDS and Spec Data Sheets,
Call our 24 Hour Fax-Back Line:

1-800-551-2806

or visit our website:

www.tremcosealants.com

TREMCO

Sealant/Weatherproofing Division

3735 Green Road • Beachwood, Ohio • 44122 • Phone: (216) 292-5000 • (800) 321-7906
220 Wicksteed Avenue • Toronto, ON M4H 1G7 • Phone: (416) 421-3300 • (800) 363-3213