

Vulkem 360NF/950NF/951NFDymonic 100Vulkem 191 Primer

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Product Description

Vulkem® 360NF/950NF/951NF is a modified polyurethane traffic deck coating system composed of a base coat (360NF), heavy duty intermediate coat (950NF) 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 360NF Base Coat is a low odor, low VOC, water-cured, rapid setting 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 360NF will prevent water migration between itself and the substrate.

Vulkem 950NF Intermediate Coat is a low VOC, two-component urethane that is applied after the Vulkem 360NF Base Coat has cured. The intermediate coat is loaded with aggregate to give the system excellent impact, abrasion and chemical resistance.

Vulkem 951NF Top Coat is an aliphatic, low VOC, 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, UV stability and chemical resistance to complete this Vulkem Traffic Deck Coating System.

Basic Uses

Vulkem 360NF/950NF/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.

Features and Benefits

- Fast cure through time allows for use 24 hr after installation.
- Low odor and low level of Volatile Organic Compounds (VOC) provides for use in neighbor friendly, inhabited structures.
- Mildew and fungus resistance safeguards concrete surfaces against environmental contaminants.
- Excellent durability and UV resistance extends the useful life of vehicular systems.
- 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 warehouse.

Packaging

Vulkem 360NF: 5 gal (18.9 L) in a 6-gal (22.7-L) pail.

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.

Vulkem 951NF: Total of 4.6-gal kit – Part A 3.75 gal (14.2 L) in a 5-gal (18.9-L) pail, Part B 0.85 gal (3.2 L) in a 1-gal pail.



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Issued to: Tremco Incorporated

Product: Vulkem® 951 NF Topcoat & Vulkem® 360 NF SL Basecoat

ASTM D 412: Tensile Strength of Top Coat

Vulkem® 951 NF

Tensile Strength: 4,729 psi;

Elongation: 157%

Pass ✓

ASTM D 4541: Adhesion of Base Coat

Vulkem® 360 NF SL

Pull-off Adhesion: 391 psi

Pass ✓

ASTM D 4060: Abrasion Resistance of Top Coat

Vulkem® 951 NF

Abrasion Resistance: 33 mgms loss

– mgms loss/1,000 cycles

Pass ✓

Validation Date: 5/16/18-5/17/23

No. 951—3600523

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DECK COATING VALIDATION
www.swrionline.org

Colors

Vulkem 951NF is available in Beige, Gray, Limestone, Maple and Slate Gray. Made-to-order and special colors also 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 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 360NF/950NF/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.

Applicable Standards

Conforms to:

- ASTM C957
- CSA S413-14

Vulkem® 360NF/950NF/951NF

Elastomeric, Waterproof Traffic Deck Coating System

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 360NF	VULKEM 950NF	VULKEM 951NF
Flash Point	Set-A-Flash	185 °F (85 °C)	200 °F (93 °C)	>200 °F (93 °C)
% Solids (by Weight)	ASTM D1353	91%	99%	80 to 85%
Drying Time @ 75 °F, 50% RH	ASTM D1640	25 mil film, 6 to 12 hr	12 mil film, 2 to 4 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 (Indoor use only)	No effect
Salt Spray	ASTM B117	N/A	No effect	No effect
Viscosity	Brookfield C&P	8000 to 10000 cps	2000 cps	2500 cps
Elongation	ASTM D412	500%	100%	145%
Tensile Strength	ASTM D412	275 psi	4200 psi	4500 psi
Hardness (Shore A)	ASTM D2240	40 to 50	75 shore D	50 shore D
Adhesion (Peel Strength)	ASTM D903	Unprimed concrete, 45 pli, 100% cohesive failure	100% cohesive failure	100% cohesive failure
Adhesion (Pull-Off)	ASTM D4541	350 psi	N/A	N/A
Abrasion Resistance (1000 cycles)	ATSM D4060	N/A	70 mg	33 mg
Accelerated 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.

0220/360NF/950NF/951NFDS-DC

Please refer to our website at www.tremcosealants.com for the most up-to-date Product Data Sheets.



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1445 Rue de Coulomb
Boucherville QC J4B 7L8
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VULKEM® TRAFFIC COATINGS COLOR CARD

VULKEM® 346



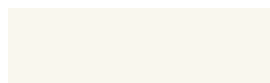
BLACK (SPECIAL)



SLATE GRAY



GRAY



WHITE (SPECIAL)



LIMESTONE



BEIGE (SPECIAL)



MAPLE (SPECIAL)

VULKEM® 351 / 351NF



BLACK (SPECIAL) / NF: (SPECIAL)



SLATE GRAY



GRAY



WHITE / NF: (SPECIAL)



LIMESTONE



BEIGE



MAPLE / NF: (SPECIAL)



CHARCOAL (351 ONLY)

VULKEM® 950NF



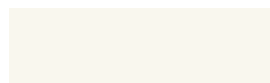
BLACK



SLATE GRAY



GRAY



WHITE (SPECIAL)



LIMESTONE (SPECIAL)



BEIGE (SPECIAL)



MAPLE (SPECIAL)



CHARCOAL

VULKEM® 951NF



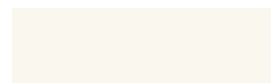
BLACK



SLATE GRAY



GRAY



WHITE (SPECIAL)



LIMESTONE



BEIGE



MAPLE (SPECIAL)



CHARCOAL

VULKEM® OC810



BLACK (SPECIAL)



SLATE GRAY



GRAY



WHITE (SPECIAL)



LIMESTONE



BEIGE

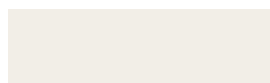


MAPLE



CHARCOAL

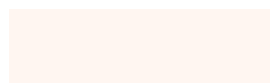
TREMCO® PUMA TC (TOP COAT) STANDARD COLORS



WHITE



DECORATIVE¹



TINTABLE²



BEIGE



GRAY



SLATE GRAY



CHARCOAL

¹ For use with decorative aggregate. ² For use with Tremco Universal ColorPaks.

All colors shown are approximate and may not reflect sheen or shade precisely, as varying amounts of aggregate will alter light-reflecting properties. Tremco always recommends a test patch to gain final color approval. Different lighting conditions can influence color appearance; for truer color please view in daylight. Some colors may require a minimum quantity. Custom colors are available upon request. Contact Tremco Customer Service for more information.



VULKEM® TRAFFIC COATINGS COLOR CARD

PEDESTRIAN COATINGS

Tremco pedestrian deck coating systems are designed to create a moisture-curing, durable waterproofing membrane for plaza decks, pedestrian walkways, roof terraces, balconies, and plywood decks.

VULKEM® 350NF*/351 and **VULKEM® 350NF*/351NF** are attractive composite waterproofing systems composed of tough-curing liquid polyurethane. Vulkem 351 also is available in a low-VOC neighbor friendly (NF) version.

VULKEM® 350NF*/951NF is a fast-curing, composite waterproofing system composed of tough-curing liquid polyurethane. In non-UV situations, Vulkem 950NF may be used in lieu of Vulkem 951NF.

VEHICULAR COATINGS

Tremco vehicular deck coating systems are designed for waterproofing concrete slabs and protecting occupied areas underneath from water damage. Additionally, these systems will protect the concrete from damaging effects of deicing salts, chemicals, gasoline, oils, and antifreeze.

VULKEM® 350NF*/950NF/951NF is a modified polyurethane traffic deck coating system composed of a base coat (350NF); an ultra-fast-curing, heavy duty intermediate coat (950NF); and a fast-curing top coat (951NF). This unique waterproofing system has tenacious adhesion, extreme impact and abrasion resistance along with remarkable chemical stability. Vulkem 951NF can be used for both the intermediate and top coats when extended pot life is needed, and Vulkem 950NF can be used for both coats in non-UV situations.

VULKEM® 350NF*/346/346 is a modified polyurethane traffic deck coating system composed of a base coat (350NF), heavy duty intermediate coat (346) and top coat (346). This unique waterproofing system has tenacious adhesion, extreme impact and abrasion resistance, along with remarkable chemical stability.

SPECIALTY COATINGS

Tremco offers durable waterproof coatings for a variety of specialty applications.

VULKEM® OC810 Coating is a high-solids, aliphatic urethane membrane developed to be applied in one 25-40-mil coat for aesthetically pleasing, waterproofing protection with excellent durability and UV resistance. It is low odor, low VOC (less than 30g/L), mildew- and fungus-resistant and designed for use with Tremco Rubber Aggregate 12-20 mesh for soft texture and skid-resistance. It is ideal for use on balconies, roof terraces, and mechanical rooms.

VULKEM® 801 is a liquid-applied, one-part polyurethane coating system that has been formulated to have a high tensile strength, tear strength and elongation all in a viscosity grade that can be used horizontally and vertically.



** In all of these systems, Vulkem 360NF can be used in place of 350NF.*

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VTCCC/0321

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APPLICATION INSTRUCTIONS

1. Purpose

- 1.1 The purpose of this document is to establish uniform procedures for applying the Vulkem® 360NF/950NF/951NF Traffic Deck Coating System. This document describes application procedures for medium and heavy duty requirements. The techniques involved may require modifications to adjust to jobsite conditions. If you have any questions at all about your application, contact your local Tremco Field Sales Representative for specific design requirements.
- 1.2 This document will provide the necessary instructions and troubleshooting for the application of the Vulkem Traffic Deck Coating System to qualify for the manufacturer's warranty.

2. Substrate Preparation

- 2.1 Investigation of the substrate should be performed to determine the type of surface preparation that will need to take place to achieve the appropriate surface profile required for the coating application. Depending on the condition of the concrete, one or more types of surface preparations may be required. Refer to ICRI's Technical Guideline No. 03732- Selecting and Specifying Concrete Surface Preparation for Sealers, Coatings and Polymer Overlays for best practices on selecting the appropriate method of concrete preparation. Thin film and high-build coating applications will require the surface profile, CSP 2-4.

3. Conditions for Concrete Surfaces

- 3.1 Concrete shall be water-cured and attain a 4000 psi minimum compressive strength. 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.
- 3.2 Concrete shall be made free of any laitance which can usually be achieved by shotblasting (preferred method) or sandblasting the surface. For proper methods, refer to ICRI's Technical Guideline No. 03732.
- 3.3 Concrete surface shall be properly cleaned so that the surface to receive the coating, sealant or liquid-applied flashing is free of mold, paint, sealers, coating, curing agents, loose particles and other contamination or foreign matter which may interfere with the adhesion. Job site conditions may require the use of a Vulkem primer.
- 3.4 Shrinkage cracks in the concrete surface that are 1/16" (1.6 mm) wide or greater shall be ground out to a minimum 1/4" wide x 1/2" (6 mm x 12 mm) deep and treated according to the instructions in Section 5, Detail Work.
- 3.5 Structural cracks regardless of width shall be ground out to a minimum 1/4" wide x 1/2" (6 mm x 12 mm) deep and treated according to the instructions in Section 5, Detail Work.
- 3.6 Spalled areas shall be cleaned and free of loose contaminants prior to repair. Because jobsite conditions vary, it is recommended that you contact Tremco Technical Service or your local Tremco Sales Representative for the best method of repair.

- 3.7 In the event of exposed reinforcing steel, it is recommended that the structural engineer of record be contacted for investigation of the condition and for the best method of repair.
- 3.8 Surfaces shall be made free of defects that may telegraph and show through the finished coating. Surfaces that are rough (fins, ridges, exposed aggregate, honeycombs, deep broom finish, etc.) shall be leveled and made smooth by applying a coat of sand-filled epoxy.
- 3.9 All drains shall be cleaned and operative. Drains shall be recessed lower than the deck surface. Surface shall be sloped to drain to provide positive drainage. Drains should be detailed as instructed below:
 - Cut a 1/4" wide x 1/2" deep (6 mm x 12 mm) keyway into the concrete surface at any point where the coating will have an exposed terminating edge-- that is, any point where the coating will end in an open area subject to traffic, for example, at the end of a ramp, around drains and alongside expansion joints.
- 3.10 If the project is a restoration deck, old sealant and backing material shall be removed. The joint interface will require a thorough wire brushing, grinding, sandblasting, solvent washing and/or primer.

4. Jobsite Materials

- 4.1 Recommended materials and their use are as follows:

Dymonic® 100: A one-part, moisture-curing, gun grade polyurethane sealant for use in sealing cracks, control joints, drain detailing, and in forming cants.

Vulkem 360NF Base Coat: A two-part, low odor, low VOC, polyurethane coating used as the elastomeric waterproofing membrane of the system available in SL (self-leveling) for horizontal applications.

Vulkem 950NF Wear Coat: A two-part, aromatic, low odor, VOC compliant, high-solids polyurethane wear coat providing a chemical-resistant, weatherproof wearing surface.

Vulkem 951NF Top Coat: A two-part, aliphatic, low odor, VOC compliant, high-solids polyurethane top coat providing a chemical- and UV-resistant, color-stable, weatherproof wear surface.

Backer Rod: A closed-cell polyethylene back-up material used in expansion joints and at the base of cants to prevent three-sided adhesion, and to control the depth of the sealant.

Vulkem Primer #171: A one-part, film-forming primer to be used on porous surfaces.

TREMprime® Non-Porous Primer: A one-part primer for use on metal surfaces.

Vulkem 191 Primer: A low VOC compliant one-part porous and interlaminary primer for use in applying a fresh coat of Vulkem coating or sealant after preceding coat has been exposed for long periods of time.

Aggregate: 20-40 mesh silica sand or alumina oxide, which imparts a textured finish and contributes to slip and wear resistance.

5. Detail Work

Note: Do not apply sealant or coatings to a frosty, damp or wet surface or when air or surface temperature is below 40 °F (4 °C) or the surface temperature is above 110 °F (43 °C). Cure times as stated below are based

upon standard ambient conditions of 75 °F (25 °C), 50% RH. A decrease in ambient temperature and humidity will significantly lengthen the cure time.

- 5.1 Lay a 1/4" (6 mm) diameter backer rod into the corner at the juncture of all horizontal and vertical surfaces such as curbs, wall sections, columns, or penetrations through the deck. Apply a bead of Dymonic 100 1" (2.5 cm) wide over the backer rod. Tool the sealant bead to form a 45° cant. Use sufficient pressure to force out any trapped air and to assure complete wetting of the surface. Remove excess sealant from the deck or wall joint. NOTE: Backer rod is only required for moving joints.
- 5.2 Install a backer rod, 1/8" to 1/4" (3 mm to 6 mm) diameter larger than the joint width to all prepared control joints. Set depth of backer rod to control the depth of the sealant. (Depth of sealant is measured from the top of the concrete surface.) Proper depth of sealant is as follows:
 - For joints 1/4" (6.4 mm) to 1/2" (12.7 mm) wide, the width to depth ratio should be equal.
 - Joints 1/2" (12.7 mm) wide or greater that are not expansion joints should have a sealant depth of 1/2" (12.7 mm). The minimum joint size is 1/4" x 1/4" (6.4 mm x 6.4 mm).
 - All cracks and joints shall be sealed with Tremco approved sealant, and tooled flush with the surface. Note: Expansion joints should not be coated over. For treatment of expansion joints, contact your local Tremco Sales Representative.
- 5.3 Allow sealant to cure overnight.
- 5.4 Apply a strip of masking tape or duct tape to the vertical sections, 2" or 3" above the Dymonic 100 Sealant's cant to provide a neat termination of the vertical detail coat.
- 5.5 Prior to addition of water, Vulkem 360NF should be mixed with a spiral paint mixing paddle at a rate of 500 rpm for a minimum of 5 min. After Vulkem 360NF is thoroughly mixed, add 1 gallon of tap water to 5 gallons of Vulkem 360NF. Mix until all water is encapsulated within the Vulkem 360NF. There should be no visible striations at the end of the mixing.
- 5.6 Apply 25-mil (.64 mm) thick detail coat of Vulkem 360NF over the treated cant, and extend it to the tape on the vertical surface and 4" (100 mm) onto the horizontal surface. Feather-edge the terminating edge of the Vulkem 360NF detail coat on the horizontal surface so it will not show through the finished coating.
- 5.7 Apply a 25-mil (.64 mm) thick detail coat of Vulkem 360NF 6" (150 mm) wide, centered over all untreated cracks, all routed and sealed cracks, and over all cold joints. Feather-edge terminating edge of detail coat to keep these edges from showing through the finished coating.
- 5.8 Allow all detail coats to cure for a minimum of 4 to 6 hr depending on temperature and humidity.

6. Coating Application

NOTE: Recommended coverage rates are approximate. Sand loading methods and concrete surface profiles may increase the amount of material required to obtain uniform coverage. Please refer to mixing instructions in Section 5.5.

- 6.1 **BASE COAT:** Apply Vulkem 360NF at 64 ft²/gal or 25 wet mils (.64 mm) thick to the entire area to be coated, including over all detail coats, but excluding expansion joints. The recommended method of application is with a notched squeegee. Cross-rolling may follow in the event the coating needs to be leveled. Vulkem 360NF can be applied with a

solvent-resistant, medium-nap (3/8" to 1/2") 9.5 mm to 12.7 mm) roller sleeve.

- 6.2 Allow Vulkem 360NF to cure a minimum of 6 hr and a maximum of 24 hr. Cure rates depend on temperature and humidity. Refer to cure rate guideline in chart at the end of this document.
- 6.3 If the Vulkem 360NF has been applied for 24 hr or longer during the ideal temperature application range (see chart on last page of document), it should be cleaned with a damp cloth of Xylene (do not saturate it). Prime coat it with Vulkem 191 Primer. We highly recommend that you contact your local Tremco Sales Representative with any questions on the appropriateness of priming.
- 6.4 Pre-mix the Vulkem 950NF base component Part A to assure no settlement of the material is in the bottom of the pail and the color of the material is consistent with no streaks or striations. Open, mix and use one pail at a time. Part B must be well shaken prior to mixing with Part A. Empty contents of the curative, Part B, into the base, Part A. Using an appropriate mixer and drill, carefully mix the two components for 1 to 2 minutes, scrape down the sides of the pail and mix an additional 1 to 2 minutes. Use care to not incorporate air into the product. This could potentially lead to the development of blisters during the coating application. For recommendations on mixer options, contact Tremco Technical Services.
- 6.5 **WEAR COAT:** Vulkem 950NF wear coat is applied with a squeegee or medium-nap roller at the rate of 133 ft²/gal (3.3 M²/L) to yield approximately 12 wet mils (0.30 mm) thickness to the entire deck. **For a LIGHT DUTY APPLICATION**, apply the Vulkem 950NF wear coat in the driving lanes, ramps, turn areas and ticket areas with a squeegee or medium-nap roller at the rate of 133 ft²/gal (3.3 M²/L) to yield approximately 12 wet mils (0.30 mm).
- 6.6 **SILICA SAND ADDITION:** There are two acceptable methods of applying the silica sand:

Method A- Sand to Refusal

6.6a. Immediately following the application of the Vulkem 950NF as indicated in 6.5, broadcast to refusal (flood coat) the material with 20 to 40 mesh (.6 mm to .9 mm) diameter silica sand. Allow application to cure about 2 to 4 hr during ideal ambient temperatures and relative humidity. Before proceeding, sweep or blow off any excess sand. For a **LIGHT DUTY APPLICATION**, proceed to Step 6.7 TOP COAT. For a **MEDIUM DUTY APPLICATION**, proceed to Step 6.7 TOP COAT. For a **HEAVY DUTY APPLICATION**, proceed to Step 6.6b.

6.6b. For a **HEAVY DUTY APPLICATION**, apply an additional coat of Vulkem 950NF to the driving lanes, ramps, turn areas and ticket areas. Immediately broadcast the sand following the procedure in 6.6a. Before proceeding with the top coat application sweep or blow off any excess sand. Proceed to Step 6.7 TOP COAT.

Method B- Backroll

6.6c. Immediately following the application of the Vulkem 950NF as indicated in 6.5, broadcast 20 to 40 mesh (.6 mm to .9 mm) diameter silica sand into the wet Vulkem 950NF. Broadcast the sand at a rate of 15 to 18 lb/gal (1.8 to 2.2 kg/L) of Vulkem 950NF. Backroll the sand into the coating to ensure all the aggregate is evenly distributed. Allow Vulkem 950NF to cure about 2 to 4 hr during ideal ambient temperatures and relative humidity. For a **LIGHT DUTY APPLICATION**, proceed to Step 6.7 TOP COAT. For a **MEDIUM DUTY APPLICATION**,

proceed to Step 6.7 TOP COAT. For a HEAVY DUTY APPLICATION, proceed to Step 6.6d.

- 6.7 For a HEAVY DUTY APPLICATION, apply an additional coat of Vulkem 950NF to the driving lanes, ramps, turn areas and ticket areas. Immediately following the application of the Vulkem 950NF, repeat the procedure in 6.6c. Allow this additional coat of Vulkem 950NF to cure about 2 to 4 hr during ideal ambient temperatures and RH. Proceed to Tremco requires that any possible recoating job be reviewed and approved by your Sales and/or Technical Representative prior to installation. For any restoration opportunity or application, compatibility and adhesion testing need to be completed in the field.
- 6.7d. Step 6.7 TOP COAT.
- 6.8 TOP COAT: Apply Vulkem 951NF Top Coat with a medium-nap, solvent-resistant roller sleeve at a rate of 133 ft²/gal or 12 wet mils depending on the silica method used.
- 6.9 The textured properties of the finished deck coating system aid in the system's wear and slip resistance. Tremco recommends a test patch be completed by the applicator and customer acceptance obtained prior to the application.
- 6.10 Tremco recommends a minimum of 24 hr after the final topcoat has cured before allowing vehicular traffic on the deck, but 3 days is preferable.

7. Clean Up

- 7.1 Clean all adjacent areas to remove any stains or spills with Toluene or Xylene.
- 7.2 Clean tools or equipment with Toluene, or Xylene before material cures.
- 7.3 Clean hands by soaking in hot, soapy water then brushing with a stiff bristle brush.

8. Material Usage Guidelines

Dymonic 100: For a 1" (25.4 mm) cant bead over a 1/4" (6 mm) backer rod, 1 case of sealant for every 48 lf (14.6 M) is required.

Vulkem 360NF Base Coat: When applied at 64 ft²/gal (1.6 M²/L), will yield a mil thickness of 25 wet mils.

Vulkem 950NF Wear Coat: When applied at 133 ft²/gal (3.3 M²/L), will yield a mil thickness of 12 wet mils.

Vulkem 951NF Top Coat: When applied at 133 ft²/gal (3.3 M²/L), will yield a mil thickness of 12 wet mils.

Aggregate: Approximately 15 to 18 lb of approved aggregate will be used with each gallon of Vulkem 950NF as prescribed in Section 6.

9. Troubleshooting

- 9.1 This section describes common industry application issues when certain environmental conditions exist. Below are some commonly seen issues and remedies. If any of these should occur, it is always recommended that you contact your local Tremco Sales Representative or Tremco Technical Service.
- 9.2 When a deck contains too much moisture, the moisture may change into a vapor, which then condenses at the concrete-membrane interface before the coating has cured and may cause blisters or bubbles, ultimately interfering with proper adhesion. If this should occur, the blisters can be cut out, allowing moisture to escape. After moisture has escaped and the surface is dry, the area can be repaired. For any restoration opportunity or application, compatibility and adhesion testing need to be completed in the field."
- 9.3 If the coating application has been installed at a thickness that is greater than directed in our installation instructions, pinholes, blisters or bubbles may occur in the coating. To avoid this occurrence, the material should be applied in accordance to the installation instructions.
- 9.4 If the coating is applied in very hot ambient temperatures, the air in the small spaces between the concrete particles increases in volume and forms blisters. Contact Tremco Technical Services should this occur.
- 9.5 If the previous coating application has not fully cured, solvent may become trapped between the coats and lead to large blisters that will most likely be tacky on the backside. Blisters may be cut out and repaired after the surface has been allowed to fully dry.

This section discusses the impact of applying these coatings outside the ideal temperature application range of 65 to 85 °F (18.3 to 29.4 °C) at 50% RH.

- 9.6 At temperatures lower than the ideal range, the material will become more viscous and it will cure at a slower rate. Refer to the chart below for approximate cure rates at varying temperatures.

10. Weather Impact on Coating Application

- 10.1 Deck temperatures may affect cure rates even when ambient temperatures are high.
- 10.2 Enclosed areas may slow the cure rate of the coating because humidity levels tend to be low in these conditions due to the low exchange of air over the membrane.
- 10.3 In extremely dry conditions, with RH less than 50%, even when temperatures are high, cure rates can still be extended

Quick Reference Application Chart

Layer	Product	Wet Mils	Cure Time*	Square Feet Per Gallon
Base Coat	Vulkem 360NF	25	6-12 hr	64
Wear Coat (drive lanes, ramps, turns, ticket areas)	Vulkem 950NF	12	2-4 hr	133
Wear Coat #2 (entire deck)	Vulkem 950NF	12	2-4 hr	133
Top Coat	Vulkem 951NF	12	2-4 hr	133

*Cure times are based on ideal ambient temperature at 50% RH. See chart below for ideal temperature range.

Approximate Cure Times at 50% RH

Temperature at 50% RH	Vulkem 360NF	Vulkem 950NF	Vulkem 951NF
40°-55° F 4.4°-12.8° C	40-72	48-72	40-48
55°-65° F 12.8°-18.3° C	12-40	6-8	3-6
65°-85° F 18.3°-29.4° C	6-12	2-4	2-4
85° F 29.4° C	4-6	< or = 2	< or = 2

Variations in temperature and humidity can affect the cure rate of the coating. The above chart should be used as a guide only to determine the approximate rate of cure. Other factors can also influence the cure rate such as substrate temperature and enclosed environments. For more information about proper application procedures please refer to the Installation Instructions or contact Technical Services.

1020/360NF/9500NF/951NFAI-DC

Please refer to our website at www.tremcosealants.com for the most up-to-date Application Instructions.



Tremco Commercial Sealants & Waterproofing

3735 Green Rd
Beachwood OH 44122
216.292.5000 / 800.321.7906

1451 Jacobson Ave
Ashland OH 44805
419.289.2050 / 800.321.6357

220 Wicksteed Ave
Toronto ON M4H1G7
416.421.3300 /
800.363.3213

1445 Rue de Coulomb
Boucherville QC J4B 7L8
514.521.9555

Vulkem® Coatings Selection Guide

Products			Components	Extreme Wear	Under Tile	Pedestrian Deck	Vehicular Deck	Athletic Surface	Roof Terrace	Mechanical Room	Balconies	Plywood ¹ Application	Low-VOC	Below-Freezing Temperature Application	UV-Stable (Aliphatic)
Primer	Tremco® Epoxy Primer	2		●	●	●	●	●	●	●	●	●			
	TREMprime® Multi-Surface Urethane Primer	2		●	●	●	●	●	●	●	●	●	●		
	TREMprime® VB	2		●	●	●	●	●	●	●	●	●	●		
	Vulkem® Primer #171	1		●	●	●	●	●	●	●	●	●			
	Vulkem® 191 Primer	1		●	●	●	●	●	●	●	●	●	●		
	Tremco® PUMA Primer*	2	●	●	●	●	●	●	●	●	●	●	●	●	
Base Coat	Vulkem® 350	1		●	●	●	●	●	●	●	●	●		●	
	Vulkem® 350NF	1		●	●	●	●	●	●	●	●	●	●		
	Vulkem® 360NF	2			●	●	●	●	●	●	●	●	●		
	Tremco® PUMA BC*	2	●	●	●	●	●	●	●	●	●	●	●	●	
	Tremco® PUMA BC LM*	2	●	●	●	●	●	●	●	●	●	●	●	●	
Intermediate Coat	Vulkem® 346	1				●									●
	Vulkem® 950NF	2				●				●			●		
	Tremco® PUMA WC*	2	●			●				●			●	●	
Top Coat	Vulkem® 346	1				●									●
	Vulkem® 351	1			●			●	●		●				●
	Vulkem® 351NF	2			●			●	●		●	●	●		●
	Vulkem® 950NF	2				●				●			●		
	Vulkem® 951NF	2			●	●	●	●	●	●	●	●	●		●
	Tremco® PUMA TC*	2	●	●	●	●	●	●	●	●	●	●	●	●	●
Specialty	Vulkem® OC810	1			●				●	●	●	●	●		

NOTE: The Coatings Selection Guide is to be used as a general reference. Primer use will vary based on project requirements. Please consult your local Tremco Sales or Technical Service Representative for regional recommendations based on your local building practices and warranty requirements. Reference the current product data sheet on our website at www.tremcosealants.com for more specific product information.

* These products are components of Vulkem EWS and should only be used in conjunction with each other, except when used for tying into Vulkem urethane coatings. For specific tie-in recommendations and instructions, please contact your local Tremco Sales or Technical Service Representative.

¹ 5/8" Exterior-grade plywood, A-side up and well-fastened.

Tremco Commercial Sealants & Waterproofing

3735 Green Road, Beachwood, OH 44122 // Phone: 216.292.5000 // 800.321.7906 • 220 Wicksteed Avenue, Toronto, ON M4H 1G7 // Phone: 416.421.3300 // 800.363.3213 • 1451 Jacobson Avenue, Ashland, OH 44805 // Phone: 419.289.2050 // 800.321.6357



FLUID-APPLIED TRAFFIC COATING SYSTEMS

Comprehensive Solutions for Pedestrian, Vehicular and Specialty Applications





CONNECTIONS: THE KEY TO LONG-TERM SUCCESS

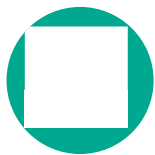
When it comes to protecting the entire building envelope, Tremco stands alone as your single source manufacturer of choice. On-site training, field support, and sustainable solutions designed to streamline your design and installation process are only a few of the value-added solutions we provide. Our team is adept at resolving numerous building envelope challenges that you may encounter on the job — and we pride ourselves on helping your team realize the maximum long-term value and quality of your finished structure.

Tremco products are conceived, formulated and tested in our labs, as well as in the field to ensure maximum compatibility and connectivity. Our expertise extends to all six sides of the building envelope, providing peace of mind. You are always covered when your project abuts, adjoins or overlaps other Tremco components or systems, effectively eliminating these otherwise troublesome connection points. Few others can offer this type of comprehensive approach.

Ultimately, our attention to these connections allows us to provide unique, all-inclusive system warranty options that our competitors simply cannot match.

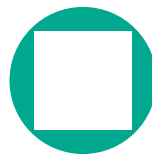
THE TREMCO CPG DIFFERENCE

Speed construction or restoration. Simplify installation. Extend the construction season. A Tremco Construction Product Group (CPG) single-source building envelope means more for everyone — more satisfied contractors, more comfortable occupants or tenants, and more efficient structures and cost-effective operation for owners.



Faster Construction Time

Lightweight, fast-curing and prefabricated products mean less occupant disruption, faster return to service, less revenue lost — and no call-backs.



Any Look You Want

A wide range of colors and finishes like brick, granite, metals, stucco and more provide maximum flexibility in your roof and façade aesthetic.



Stronger and More Resilient

Our systems are designed for maximum durability, many with service lives far surpassing that of competing systems.



Leak-Free Performance

Products provide maximum protection from air, moisture and thermal infiltration — and are performance tested in our one-of-a-kind Sustainable Building Solutions Test Facility.



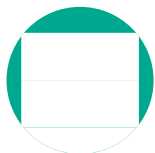
Cost Effective for the Long Term

A broad range of products can fit any project budget — but our energy efficiency and maintenance solutions can also help you ensure cost-effective ownership and operation for the long term.



Better Insulated

Industry-leading brands provide solutions for more efficient building construction and operation, and exceed strict energy codes for insulation.



One Point of Contact

Our products and systems are backed by industry-leading warranties — all from a single point of contact. We can also help with everything from asset management to diagnostics to installer training.



Leading Edge Sustainability

Our building solutions help you meet green building standards like Net Zero, Living Building Challenge, Passive House and more.

TRAFFIC COATINGS OVERVIEW

With a wide range of solutions for vehicular, pedestrian and specialty applications, Tremco's high-performance liquid-applied membranes offer superior, long-term durability in traffic-bearing service conditions.

Our systems are designed to waterproof structures, protecting substrates from the harsh effects of chemical intrusion, thereby extending the lifecycle of these surfaces. The waterproofing layer of our systems are protected by various wear and top coats, increasing the durability of the installed system.

With over 40 years of experience in traffic coatings, we've created and developed products that meet the unique demands of any project. Our coatings portfolio addresses speed of application, durability, budget considerations and more. We also offer Neighbor Friendly (NF) formulas for sensitive area applications and a fully-compatible range of detailing sealants. Whether repair/restoration or new construction, Tremco has proven solutions for the following applications:

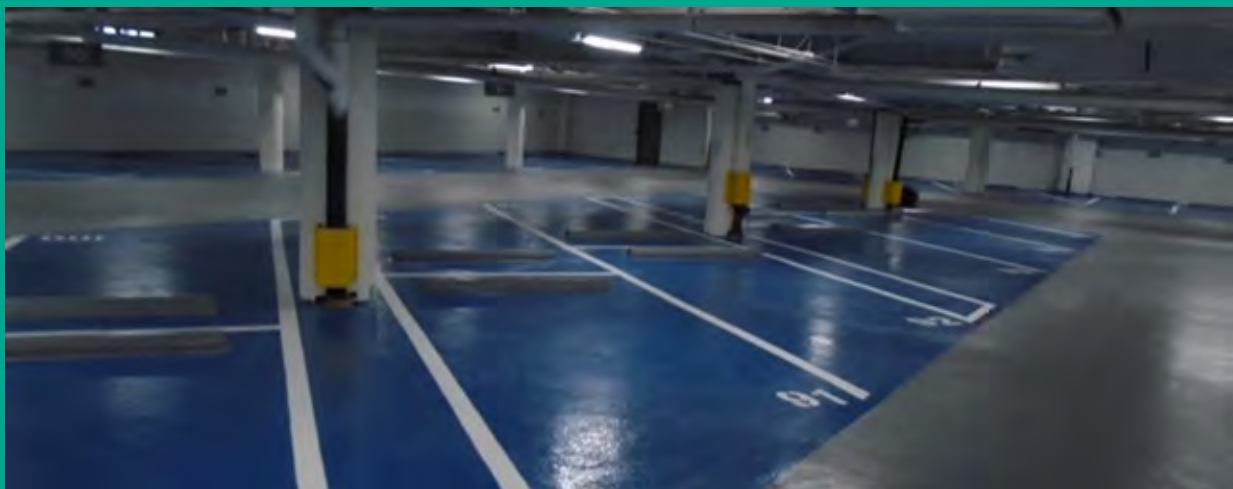
- Parking garages
- Stadiums
- Dumpster areas
- Pedestrian walkways
- Mechanical rooms
- Hardscape/pool areas
- Balconies
- Recreation decks

Proven Performance

Tremco traffic coating products and systems are built upon a four decade track record of proven long-term performance. These systems have been independently tested to ensure they will meet the complex installation scenarios and grueling service condition demands of your project.

On-Site Training, Testing, and Tech Support

On-site conditions always vary, presenting challenges on the project. Tremco's local technical sales representatives work with installers to provide the ideal solution. Immediate assistance is always available by calling our Technical Services Department.



APPLICATIONS:

	Plywood	Under Tile	Pedestrian Deck	Vehicular Deck	Athletic Surface	Roof Terrace	Mechanical Room	Balcony
PRIMERS								
Vulkem® Primer #171 ‡	•	•	•	•	•	•	•	•
Vulkem® 191 Primer	•	•	•	•	•	•		•
Tremco Epoxy Primer	•	•	•	•	•	•	•	•
TREMprime® Multi-Surface Urethane Primer	•		•				•	•
TREMprime® VB	•	•	•	•	•	•	•	•
BASE COATS								
Vulkem® 350	•	•	•	•	•	•	•	•
Vulkem® 350FC								
Vulkem® 350NF	•	•	•	•	•	•	•	•
Vulkem® 360NF	•		•	•	•	•	•	•
INTERMEDIATE COATS								
Vulkem® 346				•				
Vulkem® 351								
Vulkem® 351NF	•							
Vulkem® 950NF				•			•	
Vulkem® Epoxy WC				•				
TOP COATS								
Vulkem® 346				•				
Vulkem® 351			•		•	•	•	•
Vulkem® 351NF	•		•		•	•	•	•
Vulkem® 950NF			•	•			•	
Vulkem® 951NF	•		•	•	•	•	•	•
SPECIALTY								
Vulkem® OC810	•		•			•	•	•

Reference the current product data sheets on our website at www.tremcosealants.com for more specific product information.
 For specific tie-in recommendations and Instructions, please contact your local Tremco Sales or Technical Service Representative.
 ‡Not for use in Canada

PROPERTIES:

		Low VOC	Components	UV Stable (Aliphatic)	Recommended Substrates:
PRIMERS					
Vulkem® Primer #171 ‡		1			Concrete, plywood, other porous substrates**
Vulkem® 191 Primer •		1			Concrete, plywood, other porous substrates**, interlaminary, urethane coatings, TREMproof membranes
Tremco Epoxy Primer •		2			Concrete, plywood, other porous substrates**, interlaminary, urethane coatings, TREMproof membranes
TREMprime® Multi-Surface Urethane Primer •		2			Concrete, plywood, other porous substrates**, interlaminary, urethane coatings
TREMprime® VB •		2			Concrete, plywood, other porous substrates**, interlaminary, urethane coatings, TREMproof membranes
BASE COATS					
Vulkem® 350		1			Concrete, metal
Vulkem® 350FC					
Vulkem® 350NF •		1			Concrete, metal
Vulkem® 360NF •		2			Concrete, metal
INTERMEDIATE COATS					
Vulkem® 346		1	•		Vulkem 346
Vulkem® 351		1	•		Vulkem 350, 350NF, 360NF
Vulkem® 351NF		2	•		Vulkem 350NF
Vulkem® 950NF •		2			Vulkem 350NF
Vulkem® Epoxy WC •		2			Vulkem 350, 350NF, 360NF
TOP COATS					
Vulkem® 346		1	•		Vulkem 346
Vulkem® 351		1	•		Vulkem 350, 350NF, 360NF
Vulkem® 351NF •		2	•		Vulkem 350NF
Vulkem® 950NF •		2			Vulkem 350NF
Vulkem® 951NF •		2	•		Vulkem 950NF
SPECIALTY					
Vulkem® OC810 •		1	•		Concrete, wood (with Tremco-approved primer)

Reference the current product data sheets on our website at www.tremcosealants.com for more specific product information.

For specific tie-in recommendations and Instructions, please contact your local Tremco Sales or Technical Service Representative.

*Prior approval required by Tremco Technical Services; approval is based on compatibility and adhesion testing.

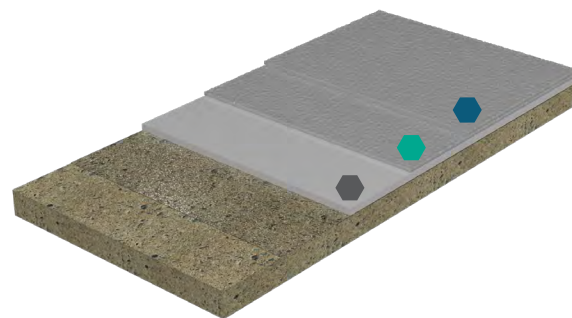
‡Not for use in Canada

PEDESTRIAN SYSTEMS

Ideal for plazas, recreation decks, balconies, pool decks, mechanical rooms, stadiums, athletic surfaces and similar applications requiring an elastomeric waterproofing system.

STANDARD PEDESTRIAN

Two-coat systems for applications that will receive light-to-medium pedestrian traffic, such as balconies, mechanical rooms, walkways and terraces.



Product Options		Coverage Rate	Wet Mils
Base Coats	Vulkem 350	40 to 64 ft ² /gal	25 to 40
	Vulkem 350NF	64 ft ² /gal	25
	Vulkem 360NF	64 ft ² /gal	25
Top Coats	Vulkem 351	105 ft ² /gal	15
	Vulkem 351NF	105 ft ² /gal	15
	Vulkem 950NF	133 ft ² /gal	12
	Vulkem 951NF	133 ft ² /gal	12

Typical Systems

Standard: 350NF / 351

Low VOC: 350NF / 351NF

Quick-Cure, Low VOC: 360NF / 951NF

Contact your local Tremco Sales Representative to determine the highest-performing system based on regional needs.

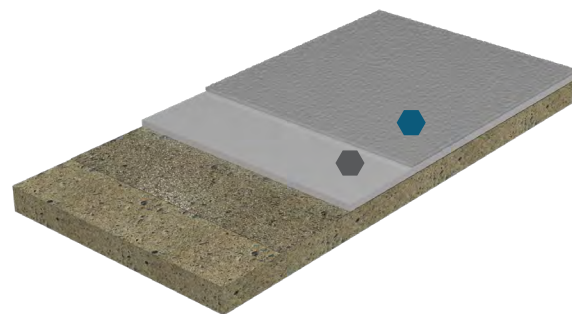


PEDESTRIAN SYSTEMS

Ideal for plazas, recreation decks, balconies, pool decks, mechanical rooms, stadiums, athletic surfaces and similar applications requiring an elastomeric waterproofing system.

HEAVY-DUTY PEDESTRIAN

Three-coat systems for areas that will be exposed to steady foot traffic, such as stadiums, amenity decks and pedestrian bridges.



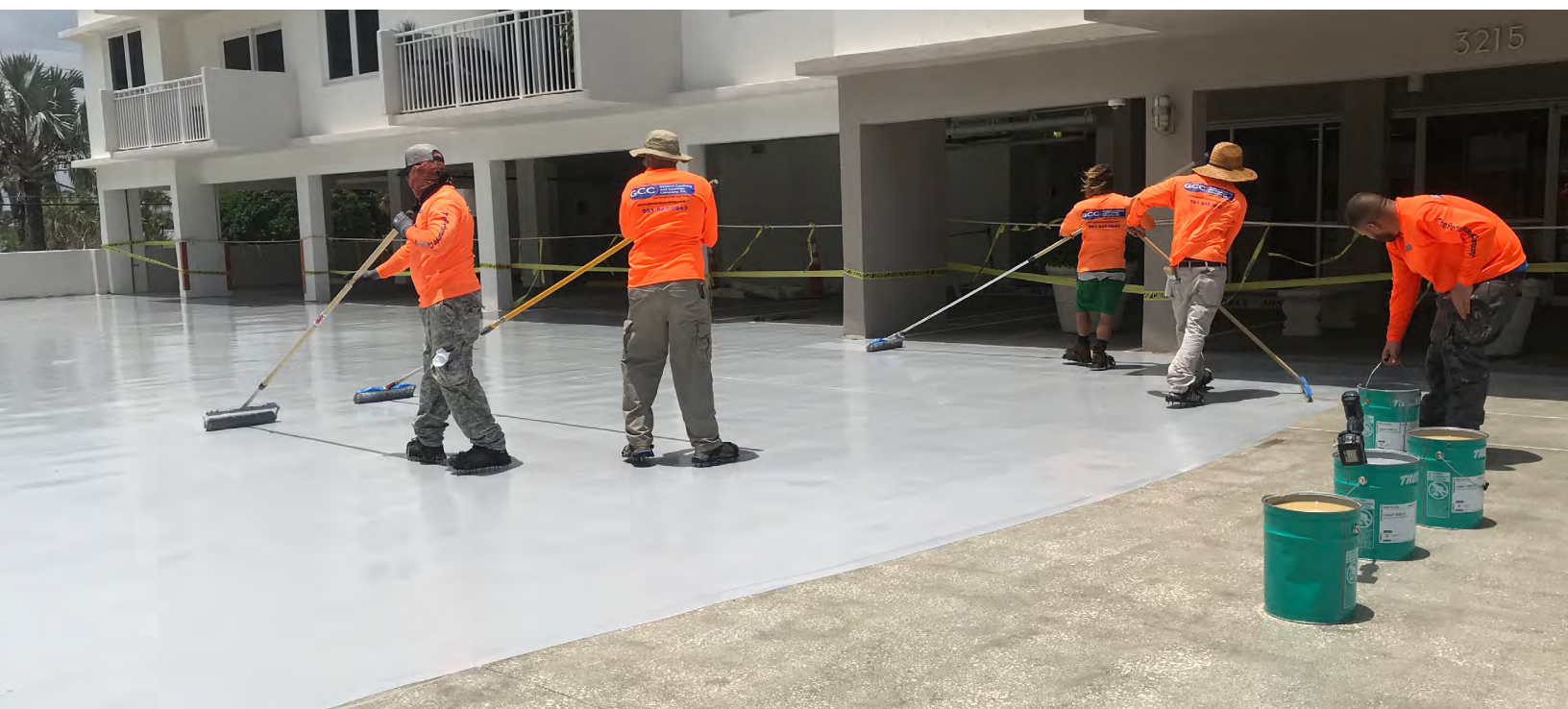
Product Options		Coverage Rate	Wet Mils
Base Coats	Vulkem 350	40 to 64 ft ² /gal	25 to 40
	Vulkem 350NF	64 ft ² /gal	25 to 40
	Vulkem 360NF	64 ft ² /gal	25 to 40
Intermediate	Vulkem 351	105 ft ² /gal	15
	Vulkem 351NF	105 ft ² /gal	15
	Vulkem 950NF	133 ft ² /gal	12
Top Coats	Vulkem 351	105 ft ² /gal	15
	Vulkem 351NF	105 ft ² /gal	15
	Vulkem 950NF	133 ft ² /gal	12
	Vulkem 951NF	133 ft ² /gal	12

Typical Systems

Standard: 350NF / 351 / 351

Quick-Cure, Low VOC: 360NF / 951NF / 951NF

Contact your local Tremco Sales Representative to determine the highest-performing system based on regional needs.

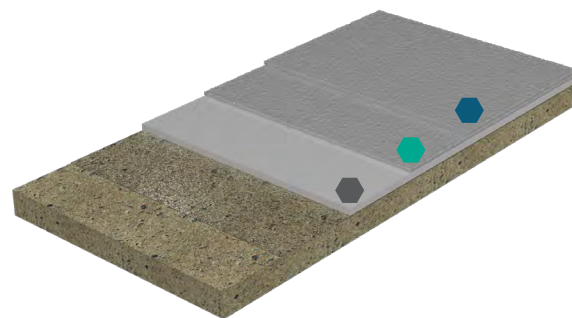


VEHICULAR SYSTEMS

Ideal for waterproofing concrete slabs and protecting occupied areas underneath from water damage, while protecting from the damaging effects of water, deicing salts, chemicals, gasoline, oils and anti-freeze.

STANDARD VEHICULAR

Three-coat systems for areas that will be exposed to standard vehicular traffic.



Product Options		Coverage Rate	Wet Mils
Base Coats	Vulkem 350	40 to 64 ft ² /gal	25
	Vulkem 350NF	64 ft ² /gal	25
	Vulkem 360NF	64 ft ² /gal	25
Intermediate	Vulkem 346	105 ft ² /gal	15
	Vulkem 950NF	133 ft ² /gal	12
	Vulkem Epoxy WC	133 ft ² /gal	12
Top Coats	Vulkem 346	133 to 160 ft ² /gal	10 to 12
	Vulkem 950NF	133 ft ² /gal	12
	Vulkem 951NF	133 ft ² /gal	12

Typical Systems

Standard: 350NF / 346 / 346

Low VOC, Indoor: 350NF / 950NF / 950NF

Low VOC, UV Stable: 350NF / 950NF / 951NF

Enhanced Durability: 350NF / Epoxy WC / 346

Vulkem 360NF can be used as a quick-cure, or low-temperature option.

Contact your local Tremco Sales Representative to determine the highest-performing system based on regional needs.

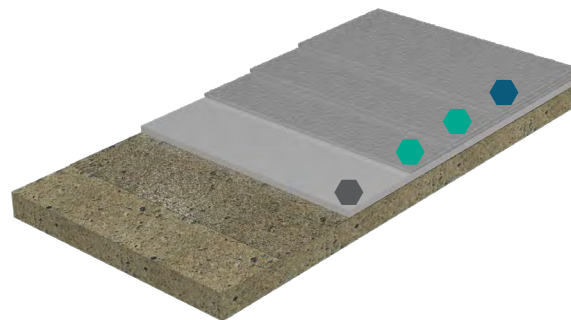


VEHICULAR SYSTEMS

Ideal for waterproofing concrete slabs and protecting occupied areas underneath from water damage, while protecting from the damaging effects of water, deicing salts, chemicals, gasoline, oils and anti-freeze.

HEAVY-DUTY VEHICULAR

Heavy-duty, four-coat systems for areas that will be subjected to steady vehicular traffic.



Product Options		Coverage Rate	Wet Mils
Base Coats	Vulkem 350	40 to 64 ft ² /gal	25
	Vulkem 350NF	64 ft ² /gal	25
	Vulkem 360NF	64 ft ² /gal	25
Intermediate	Vulkem 346	105 ft ² /gal	15
	Vulkem 950NF	133 ft ² /gal	12
	Vulkem Epoxy WC	100 ft ² /gal	16
Top Coats	Vulkem 346	133 to 160 ft ² /gal	10 to 12
	Vulkem 950NF	133 ft ² /gal	12
	Vulkem 951NF	133 ft ² /gal	12

Typical Systems

Standard: 350NF / 346 / 346 / 346

Low VOC, Indoor: 350NF / 950NF / 950NF / 950NF

Low VOC, UV Stable: 350NF / 950NF / 950NF / 951NF

Enhanced Durability: 350NF / Epoxy WC / 346

Vulkem 360NF can be used as a quick-cure, or low-temperature option.

Contact your local Tremco Sales Representative to determine the highest-performing system based on regional needs.

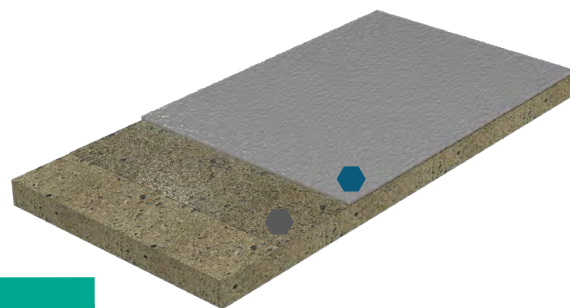


SPECIALTY SYSTEMS

Waterproof coatings for a variety of specialty applications, including one-coat and rapid-cure solutions, as well as systems for under-tile applications, mechanical rooms and areas subject to heavy abrasion.

BALCONY, LIGHT PEDESTRIAN & MECHANICAL ROOM

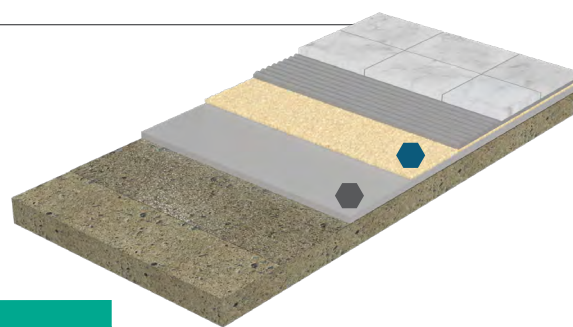
One-coat systems for areas that will receive light foot traffic such as balconies and mechanical rooms / work areas.



Product Options		Coverage Rate	Wet Mils
Base Coats	Vulkem Primer #171	100 to 600 ft ² /gal	
	Vulkem 191 Primer	400 to 450 ft ² /gal	
	TREMprime Multi-Surface Urethane Primer	200 to 300 ft ² /gal	
Top	Vulkem OC810	64 ft ² /gal	25

UNDER-TILE APPLICATIONS

Recommended two-coat system for tiles, pavers and bonded overburden.



Product Options		Coverage Rate	Wet Mils
Base	Vulkem 350NF	25 to 40 ft ² /gal	40 to 60
Top	Tremco Epoxy Primer	133 to 160 ft ² /gal	10 to 12

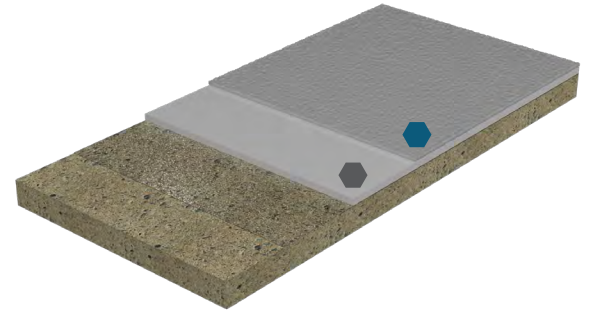
SPECIALTY SYSTEMS

Waterproof coatings for a variety of specialty applications, including one-coat and rapid-cure solutions, as well as systems for under-tile applications, mechanical rooms and areas subject to heavy abrasion.

MECHANICAL ROOM

Two-coat systems for mechanical rooms / work areas.

	Product Options	Coverage Rate	Wet Mils
Base Coats	Vulkem 350	40 to 64 ft ² /gal	25 to 40
	Vulkem 350NF	64 ft ² /gal	25 to 40
	Vulkem 360NF	64 ft ² /gal	25 to 40
Top Coats	Vulkem 351	105 ft ² /gal	15
	Vulkem 351NF	105 ft ² /gal	15
	Vulkem 950NF	133 ft ² /gal	12
	Vulkem 951NF	133 ft ² /gal	12



Typical Systems

Standard: 350NF / 351
Low VOC: 350NF / 351NF
Low VOC, Quick-Cure: 360NF / 950NF

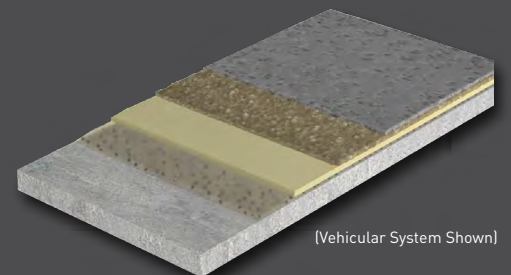
Contact your local Tremco Sales Representative to determine the highest-performing system based on regional needs.

VULKEM® EWS WITH PUMA TECHNOLOGY FOR EXTREME-WEARING SYSTEMS

Recommended systems for areas subject to heavy abrasion, such as loading docks, dumpster storage areas, ticket splitters and helical ramps, including a variety of specialty applications.

Vulkem EWS Coating Systems with PUMA technology provide superior elongation over traditional MMA/PMMA technology systems. These rapid-curing systems feature extreme durability, fast cure independent of low temperatures, crack bridging, tenacious adhesion and superior abrasion resistance.

For complete details and Vulkem EWS System offerings, please refer to the PUMA Technology brochure available on our website, or request a copy from your local Tremco Sales Representative.



tremcocpg.com



Dymonic® 100

High-Performance, High-Movement, Single-Component, Polyurethane Sealant

Product Description

Dymonic® 100 is a high-performance, high-movement, single-component, medium-modulus, low-VOC, UV-stable, non-sag polyurethane sealant.

Basic Uses

Dymonic 100 is a durable, flexible sealant that offers excellent performance in moving joints and exhibits tenacious adhesion once fully cured. Typical applications for Dymonic 100 include expansion and control joints, precast concrete panel joints, perimeter caulking (windows, doors, and panels), aluminum, masonry and vinyl siding. Dymonic 100 is also an excellent choice as a fluid applied flashing material in rough opening perimeters for fenestration/window, door and curtain wall applications.

Features and Benefits

- Can adhere to damp or green concrete and has a skin time of 2 hr with a tack-free time of 6 to 8 hr to significantly reduce dirt attraction.
- Movement capability of +100/-50% in typical field conditions, is low VOC, paintable, jet fuel-resistant, and will not crack, craze or yellow under extreme UV exposure.
- Suitable for water immersion and will not out gas.
- Formulated with an innovative polymer technology, similar to TREMproof® 250GC and Vulkem® 45SSL, Dymonic 100 is highly versatile and has a unique capability to adhere to damp or green concrete and will not out gas.
- Compatible and can be coated over with Tremco's Vulkem Deck Coatings, ExoAir® Air Barrier products and the cold, fluid-applied TREMproof® line of below-grade waterproofing products.
- Accepted/Compatible for use over Nudura Insulated Concrete Forms (ICF)

Availability

Dymonic 100 is immediately available from your local Tremco Sales Representative, distributor, or warehouse.

Coverage Rates

308' of joint per gallon for a 1/4" x 1/4" (6 mm x 6 mm) joint. For specific coverage rates that include joint size, and usage efficiencies, visit our website usage calculator at www.tremcosealants.com

Packaging

- 10.1-oz (300-mL) cartridges
- 20-oz (600-mL) sausages

Colors

Almond, Aluminum Stone, Anodized Aluminum, Beige, Black, Bronze, Buff, Dark Bronze, Gray, Gray Stone, Hartford Green, Ivory, Light Bronze, Limestone, Natural Clay, Off White, Precast White, Redwood Tan, Sandalwood, Stone, and White.

Shelf Life

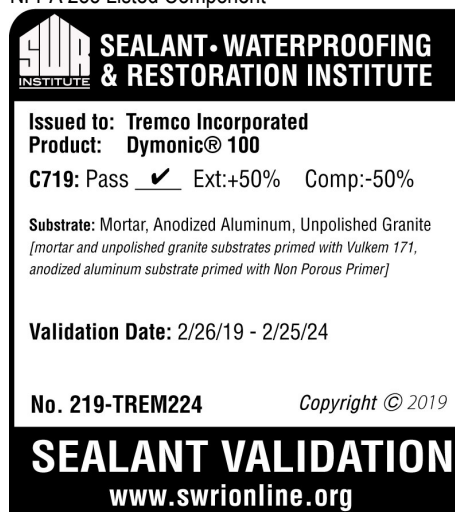
1 year when stored at 40 to 110 °F (5 to 43 °C)

Storage

Store Dymonic 100 in original, undamaged packaging in a clean, dry, protected location with temperatures between 40 to 110 °F (5 to 43 °C).

Applicable Standards

- Dymonic 100 meets or exceeds the requirements of the following specifications:
- ASTM C920 Type S, Grade NS, Class 50, Use NT, T, M, A, O, I
- U.S. Federal Specification TT-S-00230C, Class A, Type II
- CAN/CGSB-19,13-M87
- International Code Council (ICC) Section R703.8 Flashing
- AAMA 714-15 Specification for Liquid-Applied Flashing
- NFPA 285 Listed Component



Fire Rated Systems

FF-D-1186, FW-D-1117, HW-D-1122, WW-D-1200, and BW-S-0006

Limitations

- Use with adequate ventilation.
- Always utilize the accompanying MSDS for information on Personal Protective Equipment (PPE) and Health Hazards.
- Not recommended for use in chlorinated, potable, heavy or waste water.
- Although Dymonic 100 is paintable, this does not imply adhesion to and compatibility with all paints. Consult Tremco Technical Bulletin No. S-09-05 for more information.

Substrate Preparation

Surfaces must be sound and clean. All release agents, existing waterproofing, dust, loose mortar, paints, other finishes or field applied coating must be removed. This can be accomplished with a thorough wire brushing, grinding, sandblasting, or solvent washing, depending on the contamination.

Dymonic® 100

High-Performance, High Movement, Single-Component, Polyurethane Sealant

Tremco recommends that surface temperatures be 40 °F (5 °C) or above at the time the sealant is applied. If sealant must be applied in temperatures below 40 °F, please refer to the Tremco Technical Bulletin for Applying Sealants in Cold Conditions (No. S-08-44 rev 1) that can be found on our website at www.tremcosealants.com

Priming

Dymonic 100 typically adheres to common construction substrates without primers; anodized aluminum may require the use of primer. However, Tremco always recommends that a mock-up or field adhesion test be performed on the actual materials being used on the job to verify the need for a primer, proper cleaning and prep requirements. A description of the field adhesion test can be found in appendix X1 of ASTM C1193, Standard Guide for Use of Joint Sealants.

Where deemed necessary, use Vulkem® Primer #191 Low-VOC on porous substrates and TREMPRIME® Non-Porous Primer for metals or plastics.

Application

Dymonic 100 is easy to apply with conventional caulking equipment. Ensure that the backer rod is fitted properly for friction and that any necessary primers have been applied.

Fill the joint completely with a proper width-to-depth ratio, and then tool to ensure intimate contact of sealant with joint substrates.

Dry tooling is always preferred, although compatible wetting agents can be used in limited amounts to slick the spatula if needed after an initial pass.

For a cleaner finish, mask the sides of the joint with tape prior to filling.

Joint Design

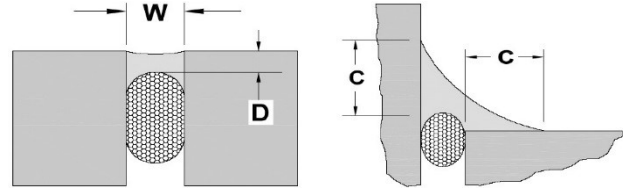
Dymonic 100 may be used in vertical or horizontal joints designed in accordance with accepted architectural/engineering practices. Joint width should be 4 times anticipated movement but not less than 1/4" (6 mm).

Joint Backing

Polyethylene backer rod is recommended as joint backing to control sealant depth and ensure intimate contact of sealant with joint substrate when tooling. Where depth of joint will prevent the use of backer rod, an adhesive backed polyethylene tape (bond breaker tape) should be used to prevent three-sided adhesion. All backing should be dry at the time of sealant application.

Sealant Dimensions

W = Sealant width, D = Sealant depth, C = Contact area.



Expansion Joints- The minimum width and depth of any sealant application should be 1/4" x 1/4" (6 mm x 6 mm). The depth (D) of sealant may be equal to width (W) of joints less than 1/2" wide. For joints from 1/2" to 1" (13 mm to 25 mm) wide, the sealant depth should be approximately one-half of the joint width. The maximum depth (D) of any sealant application should be 1/2" (13 mm). For Joints that are wider than 1" (25 mm) contact Tremco Technical Services or your local Tremco Sales Representative.

Window Perimeter- For fillet beads, or angle beads around windows and doors, the sealant should exhibit a minimum surface contact area [C] of 1/4" (6 mm) onto each substrate, with provisions for release at the heel of the angle using backer rod or bond breaker tape.

Cure Time

Dymonic 100 generally cures at a rate of 3/32" per day at 75 °F (24 °C) and 50% RH. It will skin in 2 hr and be tack free in 6 to 8 hr. The cure time will increase as temperatures and/or humidity decrease. A typical rule of thumb is one additional day for every 10 °F decrease in temperature.

Clean Up

Excess sealant and smears adjacent to the joint interface can be carefully removed with xylene or mineral spirits before the sealant cures. Any utensils used for tooling can also be cleaned with xylene or mineral spirits.

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 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.

Dymonic® 100

High-Performance, High Movement, Single-Component, Polyurethane Sealant

TYPICAL PHYSICAL PROPERTIES

PROPERTY	TEST METHOD	TYPICAL VALUES
Type		Single component polyurethane sealant
Color		21 Standard Colors
Solids		98%
Specific Gravity		1.3302
Application		gun-grade sealant, applied with typical caulking equipment
Rheological Properties	ASTM C639	non-sag (NS), 0" of sag in channel
Hardness Properties	ASTM C661	40 +/-5
Weight Loss	ASTM C1246	Pass
Skin Time	ASTM C679	2 to 3 hr
Tack Free Time	73.4°F (23°C) 50% RH	6 to 8 hr
Stain and Color Change	ASTM C510	Pass
Adhesion to Concrete	ASTM C794	35 pli
Adhesion to Concrete After Immersion	ASTM C794	30 pli
Adhesion to Green Concrete	ASTM C794	>25 pli
Adhesion to Damp Concrete	ASTM C794	>20 pli
Effects of Accelerated Aging	ASTM C793	Pass
Movement Capability	ASTM C719	+/-50%
Movement Capability	ASTM C719* Modified	+100/-50%
Tensile Strength	ASTM D412	350 to 450 psi
% Elongation	ASTM D412	800 to 900%
Modulus at 100%	ASTM D412	75 to 85 psi
Tear Strength	ASTM D412	65 to 75 psi
Service Temperature		-40 to 180 °F (-40 to 82 °C)
Application Temperature		40 to 100 °F (4 to 37 °C) *
Smoke Development	ASTM E84	5
Fire Spread	ASTM E84	5
Fire Resistance of Assembly	NFPA 285	PASS
Smoke Development	CAN S102	10
Fire Spread	CAN S102	10
Crack Bridging	ASTM C1305	PASS
Nail Sealability	ASTM D1970 Section 7.9	PASS

*For temperatures below 40 °F, please refer to the Technical Bulletin, Cold Temperature Sealant Application Recommendations.

0321/D100DS-STPlease refer to our website at www.tremcosealants.com for the most up-to-date Product Data Sheets.**Tremco Commercial Sealants & Waterproofing**

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Ashland OH 44805
419.289.2050 / 800.321.6357

220 Wicksteed Ave
Toronto ON M4H1G7
416.421.3300 / 800.363.3213

1445 Rue de Coulomb
Boucherville QC J4B 7L8
514.521.9555

Product Description

Vulkem® 191 Primer is a quick-drying, one-part, moisture-curing primer.

Basic Uses

Porous surfaces, interlaminary, urethane sealants, coatings and TREMproof membranes. It is used to prepare surfaces of cured urethane sealants, coatings and TREMproof membranes that will be sealed with a fresh coat.

Coverage Rate

400 to 450 ft²/gal for interlaminary applications. VOC compliant.

Packaging

- 1-qt (946-mL) can
- 1-gal (3.8-L) pails
- 5-gal (18.9-L) pails

Availability

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

Storage

Store indoors, protected from moisture, at temperatures between 50°F and 90°F (10°C and 32°C) and out of direct sunlight.

Limitations

- All surfaces must be sound, clean, dry and free from contamination. A thorough wire brushing, grinding, sandblasting or solvent cleaning may be required to expose clean, sound, virgin surfaces.
- Any questions regarding drying times, coverage rates and unique application techniques regarding the individual primers should be directed to Tremco Technical Services or your local Tremco Sales Representative.
- Do not apply over contaminated or damp surfaces.
- Do not thin.

Application

Apply with a clean brush or roller. Do not apply in excess or allow to puddle. Use a short nap roller only. Dry time is 25 to 45 min at 70 °F (21°C). Apply coating or sealant within 1 to 2 hr after application when primer is still tacky but does not come off substrate. Primer will yellow with time if left exposed. Do not apply in excess to other substrates not intended to be coated. Do not apply sealant or coating if primer becomes hard or glossy. If it does, clean with a Tremco approved solvent and reprime with Vulkem 191 Primer. Primer will yellow with time if left exposed.

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 Product 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	TYPICAL VALUE
Density	ASTM D1475	1.24 kg/l
Specific Gravity @ 77°F	ASTM D70	1.23 kg/l
Viscosity @ 77°F	ASTM D562	55 KU
Storage Temperature Range		50 °F (10 °C) minimum to 90 °F (32 °C) maximum

0419/V191DS-DC

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