

### Product Description

Vulkem® EWS is a cold-applied, waterproofing system that utilizes polyurethane-methacrylate (PUMA) technology. PUMA waterproofing system offers superior elongation over traditional MMA/PMMA technology systems. Vulkem EWS is composed of a primer (Vulkem Primer #70), a base coat (Vulkem BC 370 or Vulkem BC 371), and a top coat (Vulkem TC 970). All system components are cured using Vulkem EWS Initiator.

Vulkem Primer #70 is a methyl-methacrylate (MMA), two-component primer for porous and non-porous substrates. Vulkem BC 370, a modified polyurethane-methacrylate (PUMA) base coat, bonds firmly to Vulkem Primer #70. 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 BC 370 will prevent water migration between itself and the substrate.

Vulkem BC 371, a modified polyurethane-methacrylate (PUMA) base coat, bonds firmly to Vulkem Primer #70. Vulkem BC 371 is a low-modulus waterproofing membrane that is used when dynamic movement and extreme service temperature ranges are anticipated.

Vulkem TC 970 is a methyl-methacrylate (MMA) top coat. Interlaminar adhesion to Vulkem TC 970 is exceedingly strong. The top coat affords excellent abrasion resistance, UV stability and chemical resistance to complete the Vulkem EWS.

Vulkem EWS with PUMA Technology is designed to have tenacious adhesion and extreme abrasion resistance. It can provide the ability to proceed with overburden one hour after application, which expedites construction schedules.

### Basic Uses

Vulkem EWS is a cold-applied system designed for waterproofing concrete slabs and protecting occupied areas underneath from water damage. This waterproofing system is ideal for asphalt overlay.

### Features and Benefits

- Delivers extreme durability while maintaining crack-bridging characteristics, eliminating the need for reinforcing fabric
- 30-to-45-minute cure time between coats; ability to proceed to overburden 1 hour after application.
- Can be applied at temperatures as low as 20 °F (-7 °C)
- Zero Volatile Organic Compounds (VOCs)
- Compatible with approved Tremco sealants and coatings
- Premium waterproofing system backed by an all-inclusive warranty

### Availability

Immediately available from your local Tremco Sales Representative.

### Packaging

Vulkem Primer #70: 6-gal pails

Vulkem BC 370: 6-gal pails

Vulkem BC 371: 6-gal pails

Vulkem TC 970: 6-gal pails

Vulkem EWS Initiator: 55-lb bags

### Colors

Vulkem TC 970 is available in Gray, Slate Gray and Clear.

### Installation

Concrete shall be water-cured and attain a 4000 PSI minimum compressive strength. Concrete finish shall be a light steel trowel followed by an equivalent ICRI #3 or #4 finish. Moisture content in the concrete must be lower than 6% 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 EWS Application Instructions for complete application details. The techniques involved may require modification to adjust to job-site specific 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](http://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.

**Vulkem® EWS with PUMA Technology (Asphalt Overlay)**

Cold-Applied, Waterproofing System - Ready for Use 1 Hour After Application

**TYPICAL PHYSICAL PROPERTIES**

PROPERTY	TEST METHOD	VULKEM BC 370	VULKEM BC 371	VULKEM TC 970
Flash Point	Set-A-Flash	53 °F	53 °F	53 °F
% Solids (by Weight)	ASTM D1353	100%	100%	100%
Drying Time @ 75 °F, 50% RH	ASTM D1640	80 mil film, 1 hr	80 mil film, 1 hr	17 mil film, 1 hr
Weathering	ASTM D822 Weatherometer 350 hr	N/A	N/A	No effect
Elongation	ASTM D638	407%*	407%	130%
Tensile Strength	ASTM D638 @ 75 °F	1680 psi	1680 psi	986 psi
Hardness (Shore D)	ASTM D2240	35	35	55
Abrasion Resistance (1000 cycles)	ATSM D4060	N/A	N/A	51 mgm
Crack-bridging	ASTM C1305	Passes*	Passes	N/A

\*Vulkem BC 370 maintains these values at service temperatures above 20 °F (-7 °C). For more information, please contact Tremco Technical Services.

**Vulkem ® EWS with PUMA Technology  
0815/EWSASPHWPDS**

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