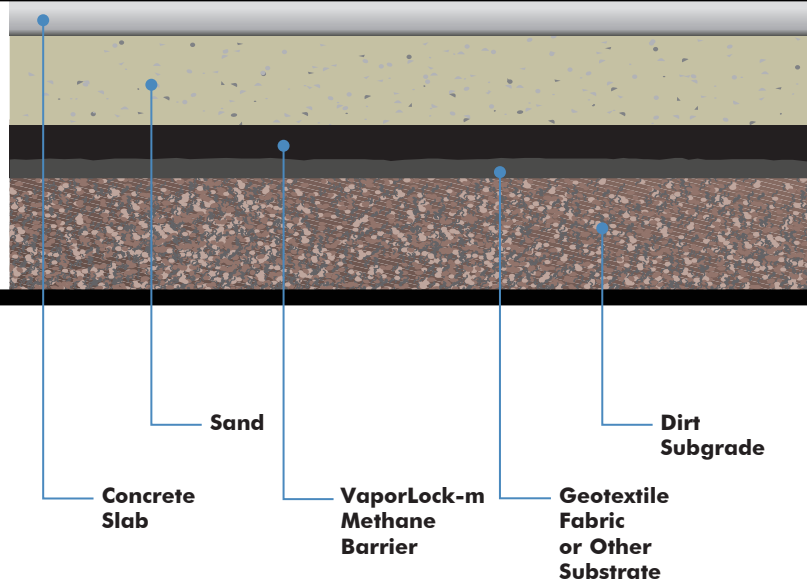


VAPORLOCK-m: YOUR SOLUTION TO METHANE MITIGATION

When soil reports indicate a need for methane mitigation for your site, VaporLock™ Methane Barrier [VaporLock-m] provides an impermeable, easy to install barrier solution to methane infiltration. What's more, VaporLock-m may help you remediate methane contamination at a lower installed cost than other applications available in your area – giving you greater opportunities for profitability or increased flexibility in your selling prices.

VaporLock™ METHANE BARRIER



SEAMLESS METHANE BARRIER

- VaporLock-m is a unique system that uses our superior barrier membrane applied to a geotextile fabric, or other substrate, to prevent methane from entering the building through the foundation slab or other treated surfaces.
- VaporLock-m is a system consisting of TUFF-N-DRI® MV polymer-enhanced asphalt barrier that is seamlessly spray-applied to the substrate. A highly protective thickness of at least 44 mils dry is required. Additional thickness may be required based upon local code or engineering consideration. The barrier's flexibility enables it to withstand thermal expansion and contraction with no compromise in performance.
- In addition to the barrier membrane, DrainStar® drain mat [not shown] is included in the VaporLock-m installation. The engineered cones of DrainStar collect and disperse methane and moisture seeping through the soil.

FROM THE LEADERS IN SPRAY-APPLIED BARRIER TECHNOLOGY

VaporLock-m comes to you from Tremco Barrier Solutions, with a heritage in spray-applied barrier technology stretching back more than 30 years.

INSTALLED BY TRAINED PROFESSIONALS

VaporLock-m is reliably installed by select contractors, trained by Tremco Barrier Solutions. Count on our contractors to professionally, promptly and courteously install VaporLock-m to your specifications and schedule.

SITE PREPARATION

- Provide a minimum 24 inches of clearance around the area to receive VaporLock-m.
- To avoid staining, apply masking or otherwise protect all adjacent areas or fixtures not to receive VaporLock-m.
- Moisture-condition and compact the subgrade to a minimum relative compaction of 90 percent or as specified by a civil engineer. Make sure the subgrade surface is free of debris and all dirt clods or stones larger than 1/4 inch, so that the finished surface is smooth and uniform.
- Properly secure all plumbing, electrical, mechanical and structural items that will penetrate VaporLock-m.

For more details about VaporLock™-m
call your local Barrier Solutions Contractor:



VAPORLOCK-m SYSTEM SPECIFICATIONS

TUFF-N-DRI MV

Membrane Description

Type	Polymer-enhanced asphalt liquid-applied membrane
Color	Black
Solids	63% ± 3% [percent by weight]
Density	8.1 lbs/gal
Application	Airless Spray
Application Temperature	Minimum 20°F
Application Thickness	44 mils [dry] ¹ solid surface 60 mils [dry] ¹ geotextile fabric [including fabric]
Coating Cure Time	16-24 hrs, Weather-Resistant <30 Minutes

- ¹ Membrane mil thickness based upon local code or engineering consideration.
² Bend membrane compound around 1" mandrel.
³ 72 hour water soak 1" x 2" x 0.40" samples of membrane compound.

Membrane Properties

Properties	Typical Results	Test Methods
Adhesion to Concrete	Exceeds	ASTM C-836
Elongation	>2000%	ASTM D-412
Low Temperature Flexibility	Flexible to 30°F (-1°C)	See ²
Crack Bridging Ability	Exceeds 10 Cycles to 1/8" at 30°F (-1°C)	ASTM C-836
Water Vapor Permeance	0.08 perms for 40-mil dry coating [grains/sf/hr in Hg]	ASTM E-96 Dry Method
Liquid Water Absorption	0.3% [wt]	ASTM D-1228 ³
Resistance to Degradation in Soil	Good	ASTM E-154
Mold Growth and Bacterial Attack	No degradation	ASTM D-3273 ASTM D-3274

GEOTEXTILE FABRIC

Properties	Test Method	Viper® Vapercheck® 10 mil	
		IP Units	SI Units
Test Procedure - Independent Test Facility	Applicable Standards	IP Units	SI Units
Thickness, Nominal		10-mil	0.25 mm
Weight Per MSF		40.8 lbs	18.5 kg
Puncture Resistance	ASTM E 154, Sec. 10	91.59 kg	
Tensile Strength (New Material)	ASTM E 154, Sec. 9	136 lbf/in (MD), 134 lbf/in (TD)	23.8 kN/m (MD), 23.5 kN/m (TD)
Tensile Strength (After Soaking)	ASTM E 154, Sec. 9	140 lbf/in (MD), 133 lbf/in (TD)	24.5 kN/m (MD), 23.3 kN/m (TD)
Elongation (New Material)	ASTM E 154, Sec. 9	21.6% lbf/in (MD), 21.0% lbf/in (TD)	
Elongation (After Soaking)	ASTM E 154, Sec. 9	24.9% lbf/in (MD), 20.6% lbf/in (TD)	
Tear Strength	ASTM 751, Tongue	54 lbs (warp), 57 lbs (weft)	24.5 kg (warp), 25.8 kg (weft)
Bursting Strength	ASTM D 751, Mullen	318 lbs.	144 kg
Water Vapor Permeance	ASTM E 96 / 154 Sec. 7	0.0016 perms (U.S.)	0.0010 perms (metric)
Chemical Resistance	ASTM E 154	Unaffected	Unaffected
Life Expectancy	ASTM E 154	Indefinite	Indefinite

¹ Minimum average roll values [MARV] in the weaker principal direction.

