RUST-OLEUM®

TVB
WATER-BASED TOPSIDE VAPOR BARRIER

DESCRIPTION AND USES

TVB Water Based Topside Vapor Barrier is a two component, water based epoxy primer for concrete floors. It has excellent adhesion to moisture laden slabs and can be used to remedy concrete floors with high moisture levels before the application of the finish coating. It is pH resistant and capable of holding back up to 12 lbs. of MVT (Moisture Vapor Transmission) with a two coat application. TVB Water Based Topside Vapor Barrier can be applied to damp concrete.

TVB Water Based Topside Vapor Barrier meets the ASTM 309 requirement (water loss of 0.55 kg/m^2 maximum) for use as a concrete curing compound. Unlike traditional sealers, a sealer based on this product does not need to be removed before applying additional floor coatings. This can be applied as a standard primer for all green concrete and will help reduce surface cracks.

PRODUCTS

277494 - Part A Resin (59 fl oz in a one gallon container)
278268 - Part B Hardener (81 fl oz in a two gallon container)

Components are sold separately. Combined components and the required additional water will yield 1½ gallons.

RECOMMENDED TOPCOAT

Any epoxy, polyurethane, or polyurea floor coating.

APPEARANCE

Clear

PRODUCT APPLICATION

SURFACE PREPARATION

The concrete surface must be free of all dirt, grease, oil, fats, and other contamination. Remove surface contamination by cleaning with Krud Kutter® Cleaner Degreaser, detergent, or other suitable cleaner. Rinse thoroughly with clean, fresh water. Squeegee away excess rinse water. The TVB Water Based Topside Vapor Barrier can be applied to damp concrete, but not a wet surface. Place your hand flat on the surface. If any water is transferred to your hand, the surface is considered to be wet.

NEW, UNCOATED CONCRETE: In addition to the aforementioned cleaning, the concrete must also be free of any sealers or silicate treatments that may have been applied after finishing of the concrete. Removal of sealers or silicate treatments will require cleaning with mechanical abrasion.

Etch concrete with 108 Cleaning & Etching Solution. Rinse thoroughly and immediately. Very dense concrete may require abrasive blasting or diamond grinding to create surface profile.

OLD OR PREVIOUSLY COATED CONCRETE: In addition to the aforementioned cleaning the concrete must be in good, sound condition. All previous coating must be removed by mechanical abrasion.

PRODUCT APPLICATION (cont.)

MIXING

Hand mixing is not adequate. The components must be combined using a power mixer. Mix at 500-750 rpm. Do not over mix or use higher speeds. This can introduce air into the coating causing small bubbles in the finish.

Combine the entire contents of Part A into the two gallon container of Part B and mix for 2-3 minutes. Continue power mixing and slowly add 52 fl oz of clean fresh water and continue to mix until a uniform mixture is achieved. Material is ready to use. No induction time is required.

NOTE: There is a fill line marked on the two gallon container which indicates the level of the total activated material once the 52 fl oz of water has been added.

DO NOT try to mix a partial kit. The components are premeasured and rationed for the additional water.

APPLICATION

Apply only when air, material and floor temperatures are between 60-80°F (15.5-27°C). Do not apply in direct Sunlight or when temperature is rising. One activated gallon of TVB Water Based Topside Vapor Barrier will cover 250 square feet. The full 1½ gallon kit will cover 375 square feet. This spread rate must be honored to ensure the primer properly performs.

Once mixed, pour the primer onto the floor in a long 8 to 12 inch wide stripe.

NOTE: Do not scrape the sides or bottom of the container. Use only the material that flows naturally out of the container. Also, do not turn the container upside down and leave on the floor to drain. Doing so may result with unactivated material from the sidewall of the container being applied. This will cause soft spots in the coating.

Use a ⅛ inch notched squeegee to spread the material out and achieve the 250 sq ft / gal spread rate. Roll out the material smooth using a ⅜" lint free roller with a phenolic core.

TVB Water Based Topside Vapor Barrier should be allowed to flow down into saw cuts, but not allowed to fill the saw cut. Do not allow the material to pool.

One coat of TVB Water Based Topside Vapor Barrier will blocks MVT up to 6 lbs. Two coats will block up to 12 lbs.

THINNING

Not required.

CLEAN-UP

Acetone.

EQUIPMENT RECOMMENDATIONS

SQUEEGEE: Use a high quality ⅛ inch notched rubber squeegee.

ROLLER: Use a high quality ⅜ inch lint-free roller with a phenolic core.

BRUSH: Use a disposable natural fiber chip brush, 2-4 inch wide for cut in work.

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TECHNICAL DATA

TVB WATER-BASED TOPSIDE VAPOR BARRIER

PHYSICAL PROPERTIES

Resin Type		Mannich Base Adduct Converted Epoxy
Weight*	**Per Gallon**	8.9 lbs.
	Per Liter	1.1 kg
Solids By Volume*		50%
Volatile Organic Compounds*		0 g/l
Practical Coverage at Recommended DFT		250 sq.ft./gal.
Induction Period		None
Working Time		1 hour @77ºF (25ºC)
Pot Life†		None. Pour out all material at the end of the induction time
Recoat		5-8 hours. Scuff sanding required if greater than 8 hours.
Shelf Life		2 years
Safety Information		See SDS

Calculated values are shown and may vary slightly from the actual manufactured material.

*Activated Material

†Immediately following mixing, pour the entire material onto the floor in a long, thin stripe. Do not try to work out of a pan or container, as the build-up of heat could shorten the pot life and create a hazardous condition.

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