RUST-OLEUM®

TVB
100% SOLIDS TOPSIDE VAPOR BARRIER

DESCRIPTION AND USES

TVB 100% Solids 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 25 lbs. of MVT (Moisture Vapor Transmission). TVB 100% Solids Topside Vapor Barrier can be applied to damp concrete.

PRODUCTS

278269 Base Component (3 gallons in a 5 gallon pail)
277500 Activator (Two 1- gallon pouches in a carton)

APPEARANCE

Clear

PACKAGING

Base component, 3 gallons, is packaged in a short filled 5-gallon pail. The Activator Component is packaged in 1-gallon pouches, two per carton.

Components are sold separately. Combined components and the required additional water will yield 5 gallons.

RECOMMENDED TOPCOAT

Any epoxy, polyurethane, or polyurea floor coating.

PRODUCT APPLICATION

SURFACE PREPARATION

New concrete must be allowed to cure for a minimum of 14 days before application of the TVB 100% Solids Topside Vapor Barrier. All concrete surfaces 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. After the concrete surface has been cleaned, the concrete must be further prepared by shot blasting to achieve an ICRI CSP-5 surface profile.

CONCRETE REPAIR

All spalls and cracks must be chased out and repaired to ICRI standards using Concrete Saver InstaPatch. For floors with very high moisture levels, cracks should be repaired with a mix of TVB 100% Solids Topside Vapor Barrier and Cab-O-Sil® fumed silica to create a paste and applied by trowel or putty knife.

MIXING

Both components and environment should be pre conditioned to a minimum of 50ºF (10ºC) prior to use. Hand mixing is not adequate. You must combine the base and activator by power mixing using either a 3" Jiffler Mixer or Hanson Plunge Mixer. Mix at 500-750 rpm for 1-3 minutes. Do not over mix or use higher speeds. This can introduce air into the coating causing small bubbles in the finish.

PRODUCT APPLICATION (cont.)

MIXING (cont.)

Start mixing the Base component in the short filled 5-gallon pail then add in the two 1-gallon pouches of Activator while maintaining mixing. It is very important to transfer as much activator as possible. Mix the two components together for 1-3 minutes being careful to not pull air into the mixture. Do not mix more material than what can be applied within 25 minutes of mixing.

If mixing less than the entire 5-gallon kit, mixing each component separately before accurately measuring out material. Use a 3:2 (base to activator) by volume mixing ratio and mix thoroughly.

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 100% Solids Topside Vapor Barrier will cover 80-100 square feet. The full 5-gallon kit will cover 400-500 square feet. This spread rate must be honored to ensure the primer properly performs.

Immediately after mixing, pour the material 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 ¼ inch notched squeegee to spread the material out and achieve the 80-100 square feet per gallon spread rate. Roll out the material smooth using a ⅜ inch lint free roller with a phenolic core. If needed, a spiked roller can be used to release any entrapped air in the coating.

TVB 100% Solids Topside Vapor Barrier should be allowed to flow down into saw cuts, but not allowed to fill the saw cut. Allow to cure for a minimum of 24 hours before the placement of backer rod and a suitable polyurethane sealant. All expansion joints must be honored.

THINNING

Not required.

CLEAN-UP

Acetone.

EQUIPMENT RECOMMENDATIONS

SQUEEGEE: Use a high quality ¼ 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 100% SOLIDS TOPSIDE VAPOR BARRIER

PHYSICAL PROPERTIES

Resin Type		Amidoamine Converted Epoxy
Weight*	**Per Gallon**	9.1 lbs.
	Per Liter	1.1 kg
Solids By Volume*		100%
Volatile Organic Compounds*		0 g/l
Practical Coverage at Recommended DFT		80-100 sq.ft./gal.
Mixing Ratio		3:2 base to activator by volume
Induction Period		None required
Working Time		25 minutes @77ºF (25ºC)
Pot Life†		None. Pour out all material immediately after mixing.
Recoat		12-14 hours. Scuff sanding is required if greater than 24 hours.
Shelf Life		1 year
Safety Information		For additional information, see SDS

Calculated values are shown and may vary slightly from the actual manufactured material.
*Activated Material
†Immediately following induction period, 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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