

PE MVB: Epoxy Moisture Vapor Barrier

DESCRIPTION

PE MVB-Moisture Vapor Barrier is a high-performance epoxy primer engineered to provide superior moisture vapor transmission resistance. The fast drying makes this an ideal choice for a one-day systems. PE MVB creates an effective barrier against moisture to promote optimal adhesion and long-lasting protection of resinous flooring systems and other types of floor coverings.

PRIMARY APPLICATIONS

- Base coat for concrete moisture control
- Indoor applications only
- Low odor
- One coat applications

ADVANTAGES

- Fast curing
- One day install resilient flooring
- Cures at lower temperatures
- High Solids
- User friendly

@ 73°F (23°C) AND 50% RH.

MIX RATIO	(2A:1B)
STANDARD PACKAGING	Part A - 1 gallon can Part B - 1 gallon can
STORAGE	Store materials between 50°F to 80°F. Keep away from sources of ignition.
SHELF LIFE	12 months in unopened factory sealed container. Keep away from extreme cold, heat or moisture. Keep out of direct sunlight and away from fire hazards.
CLEAN UP	Clean tools with solvent before curing. Clean any spills and splashes before curing.
POT LIFE	10 minutes
WORKING TIME	15 - 20 minutes
CURE TIMES	
	Tack-Free ~ 2 - 3 hours
	Foot Traffic ~ 3 - 4 hours
	Full Cure ~ 4 - 7 days
RECOAT TIME	Within 12 hours*
RECOMMENDED THICKNESS	20 mils WFT (80 sq.ft. /ga)

* If recoat window is exceeded, surface must be mechanically prepared before subsequent coats are applied.

MIXING

- **Mix Only Full Kits, DO NOT Split.**
- Mechanically mix only, do not mix by hand.
- Precondition all components to ambient temperatures for 24 hours prior to use.

PROPERTIES

@ 73°F (23°C) AND 50% RH.

HARDNESS, SHORE D, ASTM D2240	70
ASTM F3010 STANDARD PRACTICE	Compliant
WATER VAPOR PERMEABILITY ASTM E96	< 0.10 perms *
MOISTURE VAPOR TRANSMISSION LIMITATIONS	Calcium Chloride (ASTM F-1869) 20 lbs/1000 sq.ft./24 hrs, or 99% RH, using in-situ RH probe (ASTM F-2170)
TENSILE STRENGTH	Greater than 350 psi
TENSILE ELONGATION AT BREAK ASTM D638	1.15%
APPLICATION TEMPERATURE	55°F to 80°F
SERVICE TEMPERATURE RANGE	-40°F to 200°F

* This high-performance coating system is 3rd party certified to conform to ASTM F3010 as a two-component resin-based membrane-forming moisture mitigation system applied to high-moisture concrete substrates.

CONCRETE MOISTURE

- Note although moisture testing is critical it is not a guarantee against future moisture related problems. This is especially true if there is no vapor barrier or the vapor barrier is not functioning properly and or you suspect there is concrete contamination from oils, chemical spills or excessive salts.
- A functioning vapor barrier is required.
- Perform a water droplet test in multiple places to make sure the slab is porous. (Per ASTM 3191)
- Open the pore structure in any nonporous areas and retest before installing PE MVB.

JOINTS AND CRACKS

- Control expansion joints (dynamic) in concrete substrate should be honored.
- The finished floor system requires a sawcut. Cut at 3/4" deep and 1/4" wide with a diamond blade saw attached to a vacuum.
- Follow joint sealant manufacturer's installation instructions.
- Control joints and cracks should be chased with a diamond blade and vacuumed free of debris.
- With a flat steel trowel, apply crack repair material into cracks flush with surface of concrete.
- Abrade and create a similar profile.

SURFACE PREPARATION

- Applications direct to concrete, substrates should be cured for a minimum of 30 days and have a minimum compressive strength of 3,500 psi.
- Achieving optimal adhesion requires a clean, mechanically prepared substrate. Substrate must have minimum Concrete Surface Profile (CSP) of 3-4.

APPLICATION

1. In a clean mixing pail pour all contents of Part A's and Part B. (2:1)
 2. Using a low speed drill and 3-1/2" jiffy/ jiffler style mix blade, mix Part A and Part B.
 3. Slowly mix the components being careful not to introduce excessive air.
 4. Mixing for ~3 minutes.
 5. Ensure all material is scraped by side wall and bottom of mixing container.
 6. Apply material to floor immediately after mixing.
 7. DELAY in distributing product will result in exothermic heat buildup in container.
 8. Pour ribbon of material at the start point evenly across, keeping away from wall 18".
 9. Use brush or mini roller to cut in edges.
 10. Using an 3/16" v notch squeegee, exerting downward pressure, work the length of the ribbon being sure to overlap the previous path by half a squeegee length to achieve minimal streaks and / or lap marks achieving at 80 sq.ft. /ga. Recommended minimum thickness is 20 mils WFT.
 11. Back then cross roll with an 18" double hung roller frame and 3/8" medium nap roller cover within 20 minutes of each mix at 70°F.
- **Avoid puddles of material.**
 - **Do not apply below recommended WFT.**

LIMITATIONS

- For professional use only by experienced personnel.
- Must be topcoated.
- Do not allow Part A and Part B to freeze.
- Minimum/Maximum substrate temperature at application: 50° F / 90°F.
- Minimum/Maximum ambient relative humidity during application and curing: 30-80%.
- Relative humidity below 30% may inhibit proper curing. Substrate must be 5°F above dew point.
- Ensure conditions will not change during application and curing.
- Protect from moisture and condensation for 24 hours after application.
- Applying the product outside these parameters may compromise performance.
- Exceeding the recommended dry film thickness or applying in humidity above 80% can result in bubbling or micro-bubbling within the coating.
- Do not use propane or kerosene fueled heaters. Permanent discoloration of coating may occur.
- **KEEP CONTAINER TIGHTLY CLOSED.**
- **KEEP OUT OF REACH OF CHILDREN.**
- **NOT FOR INTERNAL CONSUMPTION.**

Prior to use of any product manufactured by APN Specialty Coatings, its subsidiaries or affiliates, the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at <https://purepoxy.com/> or by calling 920-231-0850.

WARRANTY STATEMENT

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