



PROLINE VAPOR BLOCK PLUS

DESCRIPTION: Proline's Vapor Block Plus is a Moisture Vapor Suppression System with Class I Vapor Diffusion Retarder rating. It is a 100% solids, low viscosity, modified Bisphenol A and modified polyaminoamide adduct liquid epoxy resin and hardener with excellent adhesion, flexibility, impact and chemical resistance. Like most epoxies, it cures faster in warmer temperatures. Because of its superior bonding abilities, it has excellent resistance to moisture vapor from below a concrete substrate.

TYPICAL USES: Moisture/vapor barrier under Coatings, Vinyl Tiles, Rubber-Backed Carpet, Hardwood, and other Floor Coverings. Vapor Block Plus makes an excellent primer before applying a blended chip or color quartz systems or any epoxy or urethane coating. This system is also an excellent moisture barrier (with #20 sand broadcast) prior to applying cementitious coatings.

FEATURES & BENEFITS:

- Class I Vapor Diffusion Retarder Rating.
- Low Viscosity
- Perm rating < 0.10
- 100% Solids - solvent free
- Excellent chemical resistance

CHEMICAL PROPERTIES: Result

Viscosity, cps 700 at 25° C

Solids by Volume/Weight 100%

Volatile Organic Compounds 0 lbs/gal

Mix Ratio, 2A : 1B by weight

Pot Life 25 min at 23° C

Recoat time 8 - 24 hrs Max

Dry to Touch @ 70°F (21°C) 8 hrs

Walk on Time (light foot traffic) 24 hrs

Return to Service Time (vehicle traffic) 3 days

Full Cure 7 days

Coverage Rate per Gallon 80 - 200 sqft (80-100 sqft for Class I Vapor Diffusion Retarder Rating)

Recommended Application Temperature 50° - 90°F (10° - 30°C)

Maximum Relative Humidity 85%

Odor low

Flash Point, closed cup 340°F (170°C)

Color, garner 1 max

Color: Clear or Pigmented

Shelf Life - unopened containers 12 months

MOISTURE VAPOR TESTING: Proline recommends that all concrete be tested before applying a seamless coating. Concrete should be tested in accordance with ASTM F1869 and ASTM F2170. If moisture levels exceed 15 lbs/1000 square feet/24 hours (ASTM F1869) or 95% RH (ASTM F2170), contact Proline Decorative Concrete Systems prior to application.

SURFACE PREPARATION: The surface to be primed or coated should be dry and thoroughly clean; free of dust and any contaminants such as oil, grease or incompatible coating materials. Shot blasting or power scrubbing with detergent, acid washing, neutralizing and pressure washing are common surface preparation methods. To achieve Class I Vapor Diffusion Retarder Rating, shot blasting is recommended.



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MIXING INSTRUCTIONS: Mix the entire kit as supplied. The mixing ratio for Vapor Block Plus is **by Weight** - 2 parts A to 1 part B. **Note** - Mixing 2A:1B by volume will cure and harden, but will not have the highest moisture blocking/bonding properties. Actual mixing ratio by volume is 1.72 Parts A to 1 Part B. Mix entire kit thoroughly at low to moderate speed for 3 minutes using a drill motor with mixing paddle. **Note:** High speed agitation will entrain excessive air into the epoxy. Scrape the sides and bottom of the container during the mixing process. Immediately pour the entire bucket in a thin row on the floor and begin spreading. If the mixed material sits in the bucket too long, it may set up prematurely. (Do not scrape out the material on the inside walls of the bucket unless proper scraping and mixing has been done during the mixing process)

APPLICATION INSTRUCTIONS: Concrete Surface must be dry with NO visible moisture. Spread Vapor Block Plus using a rubber squeegee or notched rubber squeegee followed by a 3/8"-1/2" nap paint roller to even out any squeegee marks or uneven areas. Roller covers should be good quality and lint/shed free. To achieve Class 1 Vapor Diffusion Retarder Rating (perm<0.1), apply at a thickness of 17 - 22 mils (75 - 100 sqft per gallon) Application thickness can be controlled by using a notched rubber squeegee and then back rolled with 3/8" - 1/2" nap paint roller. Vapor Block Plus can also be applied at 200 sq ft per gallon, but will have lower moisture blocking properties.

BASECOATS AND TOPCOATS OVER VAPOR BLOCK PLUS: Apply epoxy or polyurethane coating systems within a 24 window. If the 24-hour window passes, sand the Vapor Block Plus with #100 grit sandpaper to scratch and dull the finish. Then remove the dust and clean prior to applying the epoxy or polyurethane.

CEMENTITIOUS COATING SYSTEMS OVER VAPOR BLOCK PLUS:

Following the Vapor Block Plus application, within 10-24 hours, apply a coat of Epoxy 100 with a full broadcast of #20 grit silica sand or Monterey sand, so no epoxy is showing through. When dry, the loose sand can be swept and blown off or vacuumed before applying a cementitious coating system.

NOT RECOMMENDED FOR: Do not apply to concrete less than 28 days old.

SUBSTRATES: Concrete

COLOR OPTIONS: Clear, Gray, Tan, Black, White

HOW SUPPLIED: Vapor Block Plus Epoxy is packaged in 1.36 gallon and 2.72 gallon kits.

SLIP/FALL PRECAUTIONS: Proline Decorative Concrete Systems recommends using slip resistant granules in all out door applications where the epoxies and urethanes will be used as a topcoat sealer and on indoor applications that may be exposed to water, oil or other spills that may cause a slippery environment. Aluminum oxide granules # 80 grit or courser may be broadcast into the prime coat to achieve the amount of slip resistance desired. It is the end user's responsibility to determine the suitability of a coating for their particular application. Proline or its sales people will not be responsible for injury incurred in a slip/fall accident.

SAFETY PRECAUTIONS: Health Considerations: Consult Proline's Safety Data Sheets

This chemical system requires the use of proper safety equipment and procedures. Please follow the Proline product SDS and Safety Manual for detailed information and handling guidelines.



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For Your Protection: The information and recommendations in this publication are, to the best of our knowledge, reliable. Suggestions made concerning the products and their uses, applications, storage and handling are only the opinion of Proline. Users should conduct their own tests to determine the suitability of these products for their own particular purposes and of the storage and handling methods herein suggested.

The toxicity and risk characteristics of products made by Proline will necessarily differ from the toxicity and risk characteristics developed when such products are used with other materials during a manufacturing process. The resulting risk characteristics should be determined and made known to ultimate end-users and processors. Because of numerous factors affecting results, **Proline Decorative Concrete Systems makes no warranty of any kind, express or implied**, other than that the material conforms to its applicable current Standard Specifications. Proline hereby disclaims any and all other warranties, including but not limited to those of merchant ability or fitness for a particular purpose. No statements made herein may be construed as a representation or warranty. The liability of Proline for any claims arising from or sounding in breach of warranty, negligence, strict liability, or otherwise shall be limited to the purchase price of the material.

CAUTION: KEEP OUT OF REACH OF CHILDREN. Before using or handling, read the Safety Data Sheet and Warranty. **DO NOT TAKE INTERNALLY.** Avoid contact with skin and eyes. Use only with adequate ventilation and use a respirator when exposure levels are above applicable limits.

WARRANTY: This product is not for public use and is intended for use by licensed contractors, experienced and trained in the use of these products. It is warranted to be of uniform quality within manufacturing tolerances. The manufacturer has no control over the use of this product, therefore, no warranty, expressed or implied, is or can be made either as to the affects or as results of such use. In any case, the manufacturer's obligations shall be limited to refunding the purchase price or replacing material proven defective. The end user shall be responsible for determining product's suitability and assumes all risks and liability.