FloroPoxy MVT-24 Primer

Product Description: FloroPoxy MVT-24 Primer is a two component, 100% solids alkali resistant epoxy primer that provides superior protection to concrete surfaces subjected to Moisture Vapor Transmission (MVT).

Typical Uses, Applications: Ideally suited for priming in commercial, industrial and institutional applications where MVT may be of concern.

- Aircraft hangars
- Chemical & waste treatment plants
- Detention facilities
- Hospitals & healthcare locations
- Manufacturing plants & warehouses
- Metal finishing & power generation facilities

Product Advantages:

- Highly resistant to MVT, a condition found in certain concrete substrates
- Zero V.O.C. & solvent free
- For interior use

Packaging: FloroPoxy MVT-24 Primer –

- 10 Gal (37.9 L) pail Set
- 100 Gal (378.5 L) Bulk Set

Storage: All containers should be stored at 40° F to 95° F (4° C to 35° C), be kept tightly sealed and out of direct sunlight.

Coverage: For up to 24 lbs. of MVT protection, apply 2 coats, wet on wet, with an average spread rate of 69 SF/gal (1.69 m^2/L) for a total of 23 mils (584.2 microns), in strict accordance with application instructions.

For up to 15 lbs. of MVT protection, apply 2 coats, wet on wet, with an average spread rate of 100 SF/gal (2.45 m^2/L) for a total of 16 mils (406 microns), in strict accordance with application instructions.

Note: Apply FloroPoxy MVT-24 Primer as a Clear to get the full resistance to Moisture Vapor Transmission. Pigmenting reduces the resistance of the FloroPoxy MVT-24 Primer and voids the warranty.

Required MVT Testing: Start by using *either* the Calcium Chloride Test, ASTM F1869 or the Relative Humidity Test, ASTM F2170.

If initial test results are either less than 15 lbs./1,000 SF/24 hours using the Calcium Chloride Test or below 85% RH using the Relative Humidity Test, continue using *either* method, performing the test every 1,000 SF.

If initial test results are either more than 15 lbs./ 1,000 SF/24 hours using the Calcium Chloride Test or greater than 85% RH using the Relative Humidity Test, then *both* tests must be performed every 1,000 SF.

Florock strongly recommends core samples be taken and lab-tested for penetration of the slab by any sealers, oils, adhesives, or other bond breakers. Florock does not warranty Alkali Silica Reaction (ASR) or other concrete problems. Cores through the slab can help indicate the absence or failure of a moisture barrier or the presence of aggregate between the membrane and slab. Florock warrants product penetration and bond only where cores have been tested by an independent laboratory and determined to be free of impediments to bond and penetration of product.

Surface Preparation: New concrete should have a minimum 7 day cure and preferably a broom-swept finish prior to coating. In the case of older concrete flooring, remove all surface oils, paint, dust and debris. Prior to coating, ensure the surface is clean, bare, passes the water drop test and that all surface defects have been repaired.

Concrete should be shot-blasted to a minimum CSP-3 profile. MVT testing must be performed before applying FloroPoxy MVT-24 Primer.

Note: FloroPoxy MVT-24 Primer should not be applied when floor temperature is above 90° F (32° C) or below 55° F (13° C), or when within 5° F (2.5° C) of the dew point. Product must be kept between 60° F (15.5° C) and 75° F (24° C) during application.

Application of FloroPoxy MVT-24 Primer: Once surface preparation is complete, blend FloroPoxy MVT-24 Primer and apply to the concrete floor.

For Up to 24 lbs. MVT Protection—
First Primer Coat: Premix Part A to ensure homogenous consistency. In a clean, dry container, blend 1 part by volume of Resin Part A with 1 part by volume of Activator Part B. Maximum batch size should not exceed 4 gallons (15.1 L). Blend thoroughly for 5 minutes using a low speed mechanical mixer (Jiffy Mixer is the approved mixing blade).

Note: Proper mixing is essential for product performance. Do not short mix, use improper ratio or dirty or improper mixers when blending product. Batch size should not exceed 4 gallons (15.1 L) to ensure correct mixing of product.

Transfer the mixture from the batch container to a transport container. Remix and immediately pour entire contents from the transport container onto floor. Retaining mixture in the bucket will shorten the pot life. Using a flat squeegee, apply first coat at a rate of 530 SF/gallon (13 m^2/L). Do not backroll. This first coat is meant only to seal concrete pores and to help prevent outgassing.

Note: When applying first coat, it is best to overlap each squeegee pass by 50%. This process will help ensure the pours get prefilled and help eliminate outgassing.

Note: If outgassing, pinholes or fisheyes occur, re-prep area and apply an additional coat of MVT-24 Primer to address. Outgassing or pin holes must be remedied before proceeding with flooring installation.

Second Primer Coat: Once first coat is applied, the second coat may be installed, wet on wet. Once again, premix Part A to ensure a homogenous mix. In a clean, dry container, blend 1 part by volume of Resin Part A with 1 part by volume of Activator Part B. Blend thoroughly for 5 minutes using a low speed mechanical mixer (Jiffy Mixer is the approved mixing blade).

Blended Components - Thin Film Resin Only - Without Aggregate	
Blended Ratio	1:1
Induction Time	None
Pot Life, 15 lb. mass (6.8 kg)	15-25 min.
Recommended Spread Rate	Varies
Cure Time at 70º F (21° C) @ 50% RH Average Spread Rate of 23 Mils (584.2 Microns)	
Set to Touch	4-6 hours
Minimum Recoat	6 hours
Maximum Recoat	24 hours
Floor & Air Temp. Limitations During Installation	60º-80º F 16°-26° C
Clean-Up Solvent	Xylene
N.V.W.	100%
N.V.V.	100%
V.O.C.	0 gpl
Recommended Thinner	None

Transfer the mixture from the batch container to a transport container. Remix and immediately pour entire contents from the transport container onto floor. Retaining mixture in the bucket will shorten the pot life. For up to 24 lbs. of MVT protection, using a 1/8" to 3/16" (3.1-4.8 mm) v-notched squeegee, apply second coat at a rate of 80 SF/gallon (1.96 m^2/L). Backroll second primer coat with a 3/8" (9.5 mm) nap roller immediately after spreading.

For Up to 15 lbs. of MVT Protection—
First Primer Coat: Repeat mixing and application instructions above, using same spread rate.

Second Primer Coat: Repeat mixing and application instructions above, *using the following different spread rate.* For up to 15 lbs. of MVT protection, apply second coat at a rate of 120 SF/gallon (2.94 m^2/L). Backroll second primer coat with a 3/8" (9.5 mm) nap roller immediately after spreading.

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Primer Certification Board: A certification board will be provided by Florock. This board is to be coated with FloroPoxy MVT-24 at the same time as the floor, allowed to cure and then returned to Florock as soon as possible after project installation, in order to validate warranty.

Allow second primer coat to cure before applying subsequent Florock System.

Note: The cure time will vary with conditions. Allow a minimum of 6 hours and a maximum of 24 hours before next step.

Note: Consult your Florock representative for compatible systems

Note: The maximum time FloroPoxy MVT-24 can remain uncovered is 3 days.

Note: Pigmenting FloroPoxy MVT-24 voids product warranty.

Application of Coatings Over FloroPoxy MVT-24 Primer: Once FloroPoxy MVT-24 Primer has been applied and cured for a minimum of 6 hours, inspect floor for outgassing, pinholes or fisheyes. If any are found, repair areas before proceeding with the subsequent application of the finish coating system.

Florock FloroPoxy Epoxies and FloroSpartic Polyaspartics may be applied directly to FloroPoxy MVT-24 Primer within the recoat window.

If FloroThane or FloroWear Urethanes are to be applied directly over FloroPoxy MVT-24 Primer, a deglossing/sanding must occur before proceeding. To degloss FloroPoxy MVT-24 Primer, use 120-grit sandpaper on a rotary floor machine. Take care to not sand too deeply into the primer. After deglossing, vacuum floor and then tack rag the entire surface to remove any particles before applying urethane coating.

FloroPoxy MVT-24 Primer Warranty: Florock offers a full one year warranty against material defects for the Floropoxy MVT-24 Primer. In addition, Florock will guarantee the installation will not be adversely affected by MVT up to 24 lbs./ 1,000 SF and/or 99% Relative Humidity, when applied at a total 23 mils (584.2 microns). Florock will guarantee the installation will not be adversely affected by MVT up to 15 lbs./1,000 SF and/or 85% Relative Humidity when applied at a total of 16 mils (406 microns).

This limited warranty is subject to the following conditions:

1. Florock products must be applied per application instructions on structurally sound and clean areas in which concrete meets acceptable industry standards as defined in ACI committee 201 reports (Guide to Durable Concrete). If the areas to which the products are applied now or in the future fail to meet these standards, this warranty is void.
2. This warranty shall be void if a cohesive substrate failure in concrete surfaces occurs, resulting in a delamination of the FloroPoxy MVT 24 Primer.
3. This warranty is void if Florock products are applied to improperly prepared substrates or if bond-inhibiting contaminants are present, preventing the proper performance/adhesion of the Florock products. Cracks and joints are not covered by this warranty.
4. This warranty shall be void if Florock instructions for coverage and surface preparation are not followed.
5. This warranty shall be void if any cracks develop after the application of Florock products or leakage/Moisture Vapor Transmission occurs due to pin holes in the coating.
6. This warranty shall be void if the Florock system is installed by an applicator not approved/certified by Florock.
7. Calcium Chloride and/or Relative Humidity Tests must be performed before installation and recorded, and a Primer Certification Board must be submitted to Florock. Core testing may also be required. This

warranty is void if MVT exceeds the stated limit at any time during the life of the coating.

8. Testing for concrete deficiencies and contaminates such as un-reacted silicates, organic residues, A.S.R., etc., is the responsibility of the building owner and is recommended by Florock to help avoid product failures.

This warranty does not apply if products by other manufacturers are used in conjunction with Florock. Full specifications, statements of technical information and recommendations contained therein are based on tests believed to be reliable, but the accuracy or completeness thereof is not guaranteed. Seller's and Manufacturer's only obligation shall be to repair the defective areas due to the failure of Florock products. Neither Seller nor Manufacturer shall be liable for injury, loss or damage, direct or consequential, arising out of the use of, or the inability to use, the products. Before using, User shall determine the suitability of each product for his intended use and User assumes all risk and liability in connection therewith. No statement or recommendation not contained herein shall have any force or affect unless in agreement signed by officers of Seller and Manufacturer.

The beneficiary of the warranty must provide Florock, 1120 W. Exchange Ave., Chicago, Illinois 60609, USA, a written notice within 30 days of the discovery of a claim under this warranty, in order to assert their right to any repair covered by this warranty.

ALL WARRANTIES ARE NULL AND VOID IF CUSTOMER HAS NOT PAID IN FULL, IN ACCORDANCE WITH SELLER'S PAYMENT TERMS.

Please read Safety Data Sheets before using product.

DISCLAIMER:

All preceding statements and recommendations are based on experience we believe to be reliable. The use or application of these products being beyond the control of the Seller or Manufacturer, neither Seller nor Manufacturer makes any warranty, expressed or implied, as to results or hazard from its use. The suitability, risk and liability of a product for an intended use shall be solely up to the User.