



TECHNICAL DATA SHEET – POLYSPEC® MMP PRIMER

Revised: 6/2019

DESCRIPTION

PolySpec® Moisture Mitigating Primer (MMP) is a low viscosity, 100% solids, high build, epoxy primer required when dealing with situations of elevated moisture vapor transmission or where a high build primer is needed. This primer enhances adhesion by penetrating into the concrete substrate and helps reduce bubbling and pinholes that may occur when coating porous surfaces with high build coatings. PolySpec® Moisture Mitigating Primer is formulated to prevent moisture related disbondment of non-permeable resinous systems. PolySpec® Moisture Mitigating Primer is designed for use under, Pacific Polymers® traffic coatings, TufRez® flooring, and Novorez/Thiokol® containment coatings. PolySpec® Moisture Mitigating Primer meets OSHA, State VOC regulations and USDA standards for maintenance protective coatings not in direct contact with food in federally inspected meat and poultry plants.

TYPICAL APPLICATION

PRIMER	PolySpec® MMP Primer @ 8-16 Mils
OVERCOAT	Flooring or Lining System from PolySpec®

PERFORMANCE DATA

VOC	03 lb/gal; 3.7 gm/L
VOLUME SOLIDS	100%
VISCOSITY	800-1000 cps at 72°F
SERVICE TEMPERATURE	180°F Dry Heat Resistance

BENEFITS

- Moisture insensitive to 15 lbs or 97% RH
- 100% Solids formulation eliminates solvent odors
- Low viscosity formulation penetrates and seals concrete pores.
- Covers rough surfaces to provide superior seal and adhesion

RECOMMENDED USES

- Use when moisture readings are less than 15 lbs, as measured by ASTM F1869 or less than 97% relative humidity as measured by ASTM F2170.
- To be used for open and porous substrates
- Penetrate and seal for scarified, shot blasted, or sandblasted concrete

GENERIC DESCRIPTION:

Primer

STANDARD COLORS:

Transparent Amber

PACKAGING:

- 1-Gallon Unit
- 5-Gallon Unit

COVERAGE

- 8-10 mils for 3-8 lbs of moisture = 160-200 ft² / gallon @ 10-8 mils
- 14-16 mils for >8-15 lbs of moisture = 100-114 ft² / gallon @ 16-14 mils

POLYSPEC® MMP PRIMER

HIGH BUILD EPOXY PRIMER FOR CONCRETE

STORAGE & INSTALLATION

STORAGE ENVIRONMENT	Dry area, 50–90°F
APPLICATION TEMPERATURE, AMBIENT	55–95°F
RELATIVE HUMIDITY	85% Maximum
FLASH POINT	200°F
SHELF LIFE	18 Months
POT LIFE, @ 77°F	35 Minutes
SET TIME, @72°F	Minimum: 8 Hours, Maximum: 72 Hours
RECOAT WINDOW	Minimum: 6 Hours, Maximum: 48 Hours

Material cures more slowly at cooler temperatures, and working time will be substantially reduced at higher temperatures. In hot weather, material should be cooled to 65°F to 80°F prior to mixing and application to improve workability and avoid shortened pot life. The data shown above reflects typical results based on laboratory testing under controlled conditions. Reasonable variations from the data shown above may result.

CONSIDERATIONS & LIMITATIONS

- PolySpec® does not recommend that grit be broadcast or otherwise introduced into PolySpec® MMP Primer. If enhanced slip resistance is desired, a flooring system topcoat may be specified to serve this function.
- Do not thin with solvents unless advised to do so by PolySpec®.
- Confirm product performance in specific chemical environment prior to use.
- Prepare substrate according to "Surface Preparation" portion of this document.
- Always use protective clothing, gloves and goggles consistent with OSHA regulations during use. Avoid eye and skin contact. Do not ingest or inhale. Refer to Material Safety Data Sheet for detailed safety precautions.
- For industrial/commercial use. Installation by trained personnel only.

SURFACE PREPARATION

- New Concrete:** All surfaces must be firm, clean, dry and well cured before coating. Newly poured concrete must age at least 30 days at temperatures over 70°F before coating. Form release agents, curing compounds, salts, hardeners and other foreign matter will interfere with adhesion and must be removed by sandblasting, shot blasting, mechanical scarification or suitable chemical means.
- Old Concrete:** Coating older, uncoated concrete floors is done in much the same manner as new concrete. Before etching, the concrete surface must be thoroughly cleaned with a strong detergent cleaner to remove all grease, oils, etc. All loose concrete must be removed. Form release agents, hardeners, etc., must be removed using same procedure as for new concrete. Holes and cracks should be filled. If surface deterioration presents an unacceptably rough floor, the floor should be resurfaced and patched.
- Wood:** A clean, sound wood surface is required. Remove any oils and dirt from the surface using degreasing solvent or strong detergent. Follow with sanding to remove loose or deteriorated surface wood.

Refer to PolySpec Surface Preparation Guidelines for more details.

INSTALLATION STEPS

- Before mixing PolySpec® Moisture Mitigating Primer it is important that the surface is completely prepared and ready and that all tools and equipment are handy.
- To mix 1 gallon units: Use electric or air mixer (approximately 250 rpm) with metal mixing blade (Jiffy Model HS or equal). Pour hardener contents into slack-filled resin can and mix for 2 to 3 minutes until material is thoroughly blended.
- To mix 5 gallon units: Use same procedure as 1 gallon units except a larger blade (Jiffy Model ES or equal) is required.
- Immediately pour a substantial portion of mixture onto the floor and spread material using a flat, rubber squeegee using sufficient pressure to work the primer into the porous surface.
- Immediately back roll the material with a quality 3/8" nap roller leaving 12 to 16 mils on the surface.
- The fast set primer can be top-coated in 9 hours at 72°F. The primer must be tack free before top coating. If pinholes or porosities are evident after initial cure of the primer, re-priming may be necessary; especially on very porous concrete.
- For best results, clean tools MEK or Xylene. Always wear gloves when using this product.

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