

# PPG FLOORING MOISTURE MITIGATING PRIMER

## DESCRIPTION

PPG Flooring Moisture Mitigating Primer is used to prevent adhesion issues by controlling vapor emissions. This 100% solids, two-component epoxy helps block vapor emissions up to 20 pounds/1000 feet/24 hours per ASTM F1869.

## PRINCIPAL CHARACTERISTICS

- 100% solids
- One or two coat application
- Helps reduce the effects of moisture vapor transmissions
- Excellent adhesion to damp concrete
- Suitable for new concrete or refurbishment
- TYPICAL USES:
- Food and beverage processing facilities
- Electronic equipment plants
- Industrial and commercial warehouses
- Laboratory floors
- Pharmaceutical plants
- Power plants
- Waste water and sewage treatment plants

## COLOR AND GLOSS LEVEL

- Clear – may be tinted with PPG Flooring Epoxy Tint Pack to Haze Gray, Light Gray, White, Sandstone, or Black
- Gloss

## BASIC DATA AT 77°F (25°C)

Data for mixed product	
Number of components	Two
Volume solids	100%
VOC (Supplied)	EPA Method 24: 0.0 lb/US gal (0.0 g/l)
Recommended dry film thickness	16.0 mils (400 µm) per coat
Theoretical spreading rate	100 ft <sup>2</sup> /US gal for 16.0 mils (0.0 m <sup>2</sup> /l for 400 µm)
Shelf life	Base: at least 24 months when stored cool and dry Hardener: at least 24 months when stored cool and dry

### Notes:

- Minimum system DFT is 16 mils
- Shelf life is for unopened containers
- See ADDITIONAL DATA – Recoating windows
- See ADDITIONAL DATA - Drying time



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## RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

### Concrete

- All concrete slabs must be at least 4" thick with a functioning vapor barrier.
- Minimum compressive strength must be 3,500 psi and minimum tensile strength must be 300 psi
- Concrete must be in sound condition and free of all coatings, curing compounds, oil, laitance and other contaminants. New concrete must cure a minimum of 28 days prior to application.
- Moisture vapor transmission should be less than 20 lbs. over a 1000 sq. ft. area during a 24 hour period, measured and confirmed through a calcium chloride test per ASTM F1869 or less than 95% per ASTM F2170.
- Concrete must be prepared by shot blasting to have a surface profile minimum of CSP 3 as per the ICRI standard.
- Perform all surface preparation first, then apply PPG Flooring Moisture Mitigating Primer, then patch the floor. PPG Flooring Moisture Mitigating Primer must be brush applied in cracks and pitted areas prior to patching. Clean out cracks and voids using a wire brush and vacuum. Narrow cracks may need to be widened to a ¼" depth and width with an angle grinder. Very narrow cracks can be flooded with PPG Flooring Moisture Mitigating Primer when the material is applied.
- Upon application to the concrete, outgassing may occur resulting in pinholes or voids when the air is displaced. If this occurs, reapplication is necessary. The surface should be lightly grinded and dust should be removed. Make sure the surface is dry and re-coat. In severe cases, the use of a patching material may be needed on these pinholes and voids.
- PPG Flooring Moisture Mitigating Primer should never be exposed to water until it is fully cured and will not prevent failures caused by alkaline silica reactions, ionic compounds or soluble salts in the concrete.

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### Atmospheric exposure conditions

- Ambient temperatures should be between 55°F (13°C) and 95°F (35°C)
- Material temperature should be between 55°F (13°C) and 95°F (35°C)
- Maximum 85% relative humidity during application and curing

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### Substrate temperature

- Substrate temperature during application should be between 55°F (13°C) and 95°F (35°C)
- Substrate temperature during application should be at least 5°F (3°C) above dew point

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## INSTRUCTIONS FOR USE

- APPLICATION EQUIPMENT:
- SQUEEGEE: Flat or notched rubber squeegee (depending on DFT required) with EPDM rubber blade, available from manufacturers such as Midwest Rake Co.
- ROLLERS: 3/8 inch lint-free roller with phenolic core for back-rolling.
- APPLICATION PROCEDURE:
- Only mix full kits
- Must only be applied to new or bare concrete.
- Apply 1 or 2 coats of PPG Flooring Moisture Mitigating Primer in order to achieve the minimum system DFT of 16 mils.
- Pour a substantial portion of mixed material onto the floor in a long ribbon approximately 12 to 18 inches wide. Do not scrape or drain containers.
- Using either a flat or notched rubber squeegee, spread the mixed material to a uniform thickness.
- As material is being spread with the squeegee, an applicator wearing spiked shoes should immediately back-roll and cross-roll the material with a clean, lint-free 3/8" roller. Finish by uniformly tipping off the surface with the roller in one direction.
- Do not back roll material after it begins to tack up.



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## **Mixing ratio by volume: base to hardener 2:1**

- Stir base thoroughly before mixing with hardener. Mix part A base and part B hardener (2 parts to 1 part pre-packaged by volume) for three minutes. Material is immediately ready for use after mixing base and hardener together.
- Do not mix more material than can be used within the working time.
- Material that has begun to set cannot be satisfactorily used and must be discarded.

## **Induction time**

None

## **Pot life**

75 minutes at 25°C (77°F)

## **Cleaning solvent**

AMERCOAT 12 CLEANER or use Acetone

## **ADDITIONAL DATA**

<b>Recoating window at 16 mils wet</b>				
<b>Overcoating with...</b>	<b>Interval</b>	<b>55°F (13°C)</b>	<b>72°F (22°C)</b>	<b>95°F (35°C)</b>
Itself and recommended topcoats	Minimum	18 hours - 24 hours	12 hours	10 hours
	Maximum	24 hours	24 hours	24 hours

### Notes:

- If recoating time exceeds maximum recoat times indicated, then surface abrasion is required to ensure proper adhesion.
- Abrade mechanically or sand with 80-100 grit screens.

<b>Drying time at 16 mils</b>		
<b>Substrate temperature</b>	<b>Dry to touch</b>	<b>Full cure</b>
55°F (13°C)	14 hours - 24 hours	3 days - 7 days
72°F (22°C)	8 hours - 12 hours	3 days - 7 days
95°F (35°C)	4 hours - 8 hours	3 days - 7 days

## **DISCLAIMER**

- For industrial or professional use only

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## SAFETY PRECAUTIONS

- See Safety Data Sheet and product label for complete safety and precaution requirements

## REFERENCES

• CONVERSION TABLES	INFORMATION SHEET	1410
• EXPLANATION TO PRODUCT DATA SHEETS	INFORMATION SHEET	1411
• SAFETY INDICATIONS	INFORMATION SHEET	1430
• SAFETY IN CONFINED SPACES AND HEALTH SAFETY, EXPLOSION HAZARD – TOXIC HAZARD	INFORMATION SHEET	1431

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Product code	Description
FLR1900-0	1.5 Gallon Kit

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