

PPG FLOORING 912 LV Epoxy Primer

Formerly known as Milamar ICO Primer LV

DESCRIPTION

100% solids, low viscosity penetrating epoxy primer/sealer that can be applied to dry or partially damp surfaces

PRINCIPAL CHARACTERISTICS

- 100% solids
- Low viscosity
- Low odor
- Seals concrete surfaces, helping to eliminate outgassing
- Bonds to concrete, masonry, metal and wood
- Roller, squeegee or brush application
- Helps reduce the effects of moisture vapor transmission
- Provides a Class 1 Vapor Barrier at 20 mils
- Can be applied to concrete slabs with moisture content of up to 100% relative humidity per ASTM F2170
- TYPICAL USES:
- Self-priming floor toppings and coatings
- Penetrating primer/sealer for concrete walls and floors

COLOR AND GLOSS LEVEL

- Clear, Light Gray, Medium Gray, Black, Safety Red

BASIC DATA AT 70°F (21°C)

Data for mixed product	
Number of components	Two
Mass density	9.0 lb/US gal (1.1 kg/l)
Volume solids	100 ± 2%
VOC (Supplied)	EPA Method 24: 0.3 lb/US gal (40.0 g/L)
Recommended dry film thickness	6.0 - 20.0 mils (152 - 508 µm) per coat
Theoretical spreading rate	256 ft ² /US gal for 6.0 mils (6.2 m ² /l for 152 µm) 80 ft ² /US gal for 20.0 mils (2.0 m ² /l for 508 µm)
Dry to touch	6 hours
Dry to walk on	9 hours
Overcoating Interval	Minimum: 6 hours Maximum: 24 hours
Full cure after	7 days
Shelf life	Part A: at least 12 months when stored cool and dry Part B: at least 12 months when stored cool and dry

Notes:



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- Full cure after reflects maximum hardness and chemical resistance at 77°F (25°C)
- Material should be stored in dry conditions, out of direct sunlight, and in unopened original factory containers.
- See ADDITIONAL DATA - Drying time

RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

Concrete

- NEW CONCRETE: May be installed as early as 7 days after pour. The concrete must have achieved a minimum of 3,000 psi (20.7 MPa) compressive strength prior to surface preparation and application.
- NOTE: New concrete may experience early curing movement, shrinkage or cracking while continuing to cure during the first 28 days. If this occurs after coating application, these defects will be reflected through to the final coating
- Concrete pH must be between 7.0 and 14.0
- Prepare in accordance with SSPC SP-13 guidelines
- Surface must be clean, uniform, sound, and free from contamination (such as oil, grease, rust, scale, or deposits)
- Prepare surface to achieve a profile equivalent to CSP that is recommended for overall system type as indicated by ICRI 310.2R-2013
- For moisture vapor applications, prepare concrete surface using shotblasting to achieve a surface profile in the range of CSP 3 to CSP 5 in accordance with ICRI 310.2R-2013
- Can be applied to concrete slabs with a 100% relative humidity when relative humidity for concrete substrate is tested according to ASTM F2170 specifications.
- Surface condition should be Saturated Surface Dry (SSD) or dryer

Other Substrates

- Check with PPG PMC Technical Service for preparation instructions for substrates other than concrete.

SYSTEM SPECIFICATION

- Helps block vapor transmissions at the following DFTs, per ASTM F1869:
 - At one coat of 6 mil (152 µm): 5 lb/1000 ft²/24 hr (204 g/1000 m²/24 hr)
 - At one coat of 10 mil (254 µm): 10 lb/1000 ft²/24 hr (408 g/1000 m²/24 hr)
 - At one coat of 20 mil (508 µm): 20 lb/1000 ft²/24 hr (816 g/1000 m²/24 hr)
 - Provides an E96 Class 1 Vapor Barrier at 20 mils
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INSTRUCTIONS FOR USE

Mixing ratio by volume: base to hardener 2.05:1

- Before mixing, ensure that the surface is completely prepared and ready and that all tools and equipment are handy
- Mix components according to the prescribed ratio
- Only mix full kits
- Mix Part A and Part B together using a low speed Jiffy-type mixer for 2 minutes
- Do not add solvents; product is a 100% solids epoxy

Note:

- CAUTION: Product reacts quickly; pour all contents out of container and spread with squeegee immediately after mixing, especially at temperatures greater than 70°F (21°C)
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Application

- Pour the mixture onto the floor in a continuous ribbon and spread with a squeegee
- Completely empty mixed material from pail onto the floor before moving on to the next step
- Be sure to work the primer into any porous surfaces
- Back roll with 3/8" (9.5 mm) nap roller
- Re-prime any dry appearing areas
- Re-priming may be necessary if pinholes or porous spots appear

Note:

- Working time varies with temperature.
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Pot life

45 minutes at 70°F (21°C)

Notes:

- The pot life will vary substantially with temperature
 - See ADDITIONAL DATA – Pot life
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Brush/roller

- Apply mixed material with squeegee, brush or roller
- Apply at approximately 200-250 ft²/gal (4.9-6.1 m²/l), depending on surface porosity
- Re-prime any areas that appear dry

Recommended thinner

No thinner should be added

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ADDITIONAL DATA

Working Time

- 120 minutes at 50°F (10°C)
- 90 minutes at 70°F (21°C)
- 45 minutes at 90°F (32°C)

Physical data of cured material	
Characteristic	Value
Adhesion to Concrete (ASTM D4541)	>400 psi (>2.8 MPa)*
Adhesion to Concrete (ASTM D7234)	10 mil: 539 psi (3.7 MPa)*
Adhesion to Concrete (ASTM D7234)	20 mil: 759 psi (5.2 MPa)*

Notes:

- * note: adhesion testing led to substrate failure before coating bond loss
- The value ranges stated in this Product Data Sheet are based on system processing under laboratory conditions. Equipment configurations and/or field application conditions may produce variances in final system values.

Drying time		
Substrate temperature	Dry to touch	Through Dry
50°F (10°C)	17 hours	30 hours
70°F (21°C)	6 hours	9 hours
90°F (32°C)	3 hours	4 hours

Notes:

- Maximum hardness achieved after 7 days @ 77°F (25°C)
- All drying times have been measured at a DFT of 10 mils (254 µm). Higher thicknesses will take longer to dry. Contact PPG Technical Services for drying times at higher thicknesses.

Pot life (at application viscosity)	
Mixed product temperature	Pot life
50°F (10°C)	60 minutes
70°F (21°C)	45 minutes
90°F (32°C)	15 minutes

Product Qualifications



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- Compliant with USDA Incidental Food Contact Requirements

DISCLAIMER

- For industrial or professional use only
- This product is specifically suitable for use on the substrates mentioned in this document. For application on any other substrates, please always contact your distributor or PPG representative for specific instructions and in order to make sure that the product performance can be maintained.

SAFETY PRECAUTIONS

- Read all label and Safety Data Sheet (SDS) information prior to use

WORLDWIDE AVAILABILITY

It is always the aim of PPG Protective & Marine Coatings to supply the same product on a worldwide basis. However, slight modification of the product is sometimes necessary to comply with local or national rules/circumstances. Under these circumstances an alternative product data sheet is used.

REFERENCES

- Information sheet | Explanation of product data sheets

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AVAILABILITY OF PACKAGING

Packaging

- 1-gallon and 4-gallon kits