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 dry and damp concrete, masonry, metal and wood
- Roller, squeegee or brush application
- Helps reduce the effects of moisture vapor transmissions
- Compliant with USDA Incidental Food Contact Requirements
- TYPICAL USES:
- Self-priming floor toppings and coatings
- Penetrating primer/sealer for concrete walls and floors

COLOR AND GLOSS LEVEL

- Clear

BASIC DATA AT 70°F (21°C)

Data for mixed product	
Number of components	Two
Mass density	9.2 lb/US gal (1.1 kg/l)
Volume solids	100%
VOC (Supplied)	EPA Method 24: 0.2 lb/US gal (22.7 g/l)
Recommended dry film thickness	6.0 - 10.0 mils (150 - 250 µm) per coat
Theoretical spreading rate	250 ft^2/US gal for 6.0 mils (6.1 m^2/l for 152 µm)
Dry to touch	10 hours
Overcoating Interval	Minimum: Coating should no longer leave residue when touched with a gloved finger Maximum: 18 hours
Curing time	18 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

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Notes:

- Listed data for mixed product using standard hardener.
- Curing time reflects ready for service time
- To expand the recoat time, broadcast an aggregate into primer
- Apply at approximately 200-250 ft^2/US gallon, depending on surface porosity

RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

Concrete

- Surface must be clean, uniform, sound, and free from contamination (such as oil, grease, rust, scale, or deposits)
- All surfaces to be covered should be power washed, shot blasted, acid etched, scarified or sanded to present a clean, sound substrate
- Concrete pH must be 7.0 or higher
- New concrete must cure a minimum of 28 days prior to application of this product

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 ft^2/24 hr (204 g/1000 m^2/24 hr)
- At one coat of 10 mil (254 µm): 10 lb/1000 ft^2/24 hr (408 g/1000 m^2/24 hr)
- At two coats of 10 mil (254 µm) each: 20 lb/1000 ft^2/24 hr (816 g/1000 m^2/24 hr)

INSTRUCTIONS FOR USE

Mixing ratio

- 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
- 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
- With standard hardener, Mixing Ratio by Volume: Part A to Part B 77:23 (3.44:1)
- With fast cure (FC) hardener, Mixing Ratio by Volume: Part A to Part B 82:18 (4.63:1)
- With extra fast cure (XFC) hardener, Mixing Ratio by Volume: Part A to Part B 71:29 (2.5:1)
- For recommended application instructions, see working procedure

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

- Immediately after mixing, 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
- Must be tack-free before overcoating
- Re-priming may be necessary if pinholes or porous spots appear
- Do not apply at a thickness of greater than 15 mils (381 µm) per pass.
- Product working time is 85 minutes at 70°F (21°C).
- Product working time is 85 minutes at 50°F (10°C).
- Product working time is 50 minutes at 90°F (32°C)

Note:

- Working time varies with temperature.

Pot life

25 minutes at 21°C (70°F)

Notes:

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

Brush/roller

- Apply mixed material with squeegee, brush or roller
- Apply at approximately 200-250 ft^2/gal (4.9-6.1 m^2/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

Pot life for product with fast cure (fc) hardener

- Pot Life is 9 minutes at 70°F (21°C).
- Pot Life is 10 minutes at 50°F (10°C).
- Pot Life is 9 minutes at 90°F (32°C).

Working time for product with fast cure (fc) hardener

- Working time is 10 minutes at 90°F (32°C).
- Working time is 30 minutes at 50°F (10°C).
- Working time is 30 minutes at 70°F (21°C).

Pot life for product with extra fast cure (XFC) hardener

- Pot Life is 20 minutes at 40°F (4°C).
- Pot Life is 15 minutes at 50°F (10°C).

Working time for product with extra fast cure (xfc) hardener

- Working time is 22 minutes at 40°F (4°C).
- Working time is 18 minutes at 50°F (10°C).

Time between recoats at 70°F (21°C)

- Extra fast cure (XFC) hardener: 8 hours
- Fast cure (FC) hardener: 10 hours
- Standard hardener: 18 hours

Curing time with extra fast cure (XFC) hardener		
Substrate temperature	**Dry to touch**	**Dry to service**
40°F (4°C)	36 hours	36 hours
50°F (10°C)	10 hours	25 hours

Curing time with fast cure (FC) hardener		
Substrate temperature	**Dry to touch**	**Dry to service**
50°F (10°C)	18 hours	30 hours
70°F (21°C)	5 hours	9 hours
90°F (32°C)	2 hours	4 hours

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Curing time with standard hardener		
Substrate temperature	**Dry to touch**	**Dry to service**
50°F (10°C)	40 hours	3 days
70°F (21°C)	10 hours	18 hours
90°F (32°C)	5 hours	9 hours

Note:

- Maximum hardness achieved after 7 days @ 77°F (25°C)

Pot life (at application viscosity)	
Mixed product temperature	**Pot life**
50°F (10°C)	35 minutes
70°F (21°C)	25 minutes
90°F (32°C)	15 minutes

Note:

- Listed data is for product with standard hardener.

Product Qualifications

- Compliant with USDA Incidental Food Contact Requirements

DISCLAIMER

- PPG Protective & Marine Coatings does not accept any responsibility or liability for any odor, taste or contamination imparted to the drinking water from the coatings or products retained in the coating

SAFETY PRECAUTIONS

- FAILURE TO IMMEDIATELY DIESPENSE ALL PRODUCT FROM CONTAINER CAN RESULT IN PRODUCT BECOMING EXTREMELY HOT OR EVEN COMBUSTING
- 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.

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REFERENCES

- Information sheet | Explanation of product data sheets

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