

# PPG Flooring™ 501

## Formerly known as Milamar General Purpose Epoxy

### DESCRIPTION

Two-component, 100% solids, general purpose resin binder and epoxy coating for self-leveling, slurries and troweled mortar systems

### PRINCIPAL CHARACTERISTICS

- Rapid cure and return-to-service
- Good abrasion resistance
- TYPICAL USES:
- Factory and warehouse floors
- Industrial and commercial interior
- Base coat for broadcast systems

### COLOR AND GLOSS LEVEL

- Clear or pigmented
- High gloss

Note:

- Color changes can occur under UV-exposure without negative impact on the product performance

### BASIC DATA AT 75°F (24°C)

Data for mixed product	
Number of components	Two
Volume solids	100 ± 2%
VOC (Supplied)	max. 0.6 lb/US gal (approx. 71 g/l)
Temperature resistance (Continuous)	To 140°F (60°C)
Temperature resistance (Intermittent)	To 200°F (93°C)
Recommended dry film thickness	11.0 - 30.0 mils (275 - 750 µm) per coat
Theoretical spreading rate	50 ft <sup>2</sup> /US gal for 30.0 mils (1.2 m <sup>2</sup> /l for 750 µm) 145 ft <sup>2</sup> /US gal for 11.0 mils (3.6 m <sup>2</sup> /l for 275 µm)
Dry to touch	6 hours
Dry to overcoat	8 hours
Dry to walk on	12 hours
Overcoating Interval	Minimum: 6 hours Maximum: 24 hours
Full cure after	24 hours
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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- Material should be stored in dry conditions, out of direct sunlight, and in unopened original factory containers
- Do not allow product to freeze

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### RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

- Substrate temperature during application should be between 55°F (13°C) and 85°F (29°C)
- Substrate temperature during application and curing should be at least 5°F (3°C) above dew point
- Maximum relative humidity during application and curing is 75%

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### Concrete

- All surfaces must be sound, dry, clean, free of oil, grease, dirt, mildew, curing compounds, loose and flaking paint, and other foreign substances
- All openings, cracks or voids shall be repaired
- New concrete must cure a minimum of 28 days prior to application of this product
- Prepare surface as per SSPC-SP13 guidelines
- Abrade surface to achieve a surface profile equivalent to CSP 3 to CSP 5 in accordance with ICRI 310.2R-2013

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### SYSTEM SPECIFICATION

- Recommended primer for concrete: PPG Flooring 912 LV (formerly known as Milamar ICO Primer LV). Refer to Technical Data Sheet.

### Chemical resistance (splash/spill)

- A complete list of chemical resistances is available upon request.

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### INSTRUCTIONS FOR USE

- Recommended primer for concrete: PPG Flooring 912 LV (formerly known as Milamar ICO Primer LV). Refer to Technical Data Sheet

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### Mixing ratio by volume: Part A to Part B 2:1

- Prior to mixing, the temperature of Part A and Part B should each be at least 70°F (21°C)
- Mix Part A and Part B together using a low speed Jiffy-type mixer for 2 minutes
- Mix at slower speeds to avoid whipping air into the paint
- Higher temperature will result in shorter pot life

### Notes:

- 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)
- Do not thin with solvents.

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### **Application**

- Apply evenly over the surface using a squeegee or trowel
- Back roll with 3/8" (9.5 mm) nap roller
- Use a spiked roller for avoiding air entrapment
- Use a brush or 4" (101.6 mm) epoxy roller along edges and around equipment
- Avoid excessive re-brushing or re-rolling
- Allow the surface to dry thoroughly prior to overcoating
- Ensure good ventilation during application and curing

Note:

- If the humidity gets very high, the product may exhibit a "blush". This can be removed by washing the surface with detergent.

### **Pot life**

15 minutes at 75°F (24°C)

Notes:

- At 50% relative humidity
- Higher temperatures and relative humidity will shorten pot life and working time

### **Cleaning solvent**

- THINNER 21-06

### **ADDITIONAL DATA**

Physical data of cured material	
Characteristic	Value
Flexural Strength (ASTM D790)	14,300 psi (98.5 MPa)
Compressive Strength (ASTM D695)	14,100 psi (97.2 MPa)
Tensile Strength (ASTM D638)	8,900 psi (61 MPa)
Tensile Ultimate Elongation (ASTM D638)	2.9%
Hardness, Shore D (ASTM D2240)	>81



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### DISCLAIMER

- For industrial or professional use only
- Not recommended for exterior use
- This product is specifically suitable for use on the substrates mentioned in this document. For application on any other substrates, please always contact your PMC representative for specific instructions and in order to make sure that the product performance can be safeguarded.
- Chemical resistance properties shown on the data sheet are for general information only. Always check with PPG PMC Technical Support to verify resistance to the specific chemical exposure for the service being considered.

### 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

### WARRANTY

PPG warrants (i) its title to the product, (ii) that the quality of the product conforms to PPG's specifications for such product in effect at the time of manufacture and (iii) that the product shall be delivered free of the rightful claim of any third person for infringement of any U.S. patent covering the product. THESE ARE THE ONLY WARRANTIES THAT PPG MAKES AND ALL OTHER EXPRESS OR IMPLIED WARRANTIES, UNDER STATUTE OR ARISING OTHERWISE IN LAW, FROM A COURSE OF DEALING OR USAGE OF TRADE, INCLUDING WITHOUT LIMITATION, ANY OTHER WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR USE, ARE DISCLAIMED BY PPG. Any claim under this warranty must be made by Buyer to PPG in writing within five (5) days of Buyer's discovery of the claimed defect, but in no event later than the expiration of the applicable shelf life of the product, or one year from the date of the delivery of the product to the Buyer, whichever is earlier. Buyer's failure to notify PPG of such non-conformance as required herein shall bar Buyer from recovery under this warranty.

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### AVAILABILITY OF PACKAGING

#### Packaging

- 3-gallon and 15-gallon kits

