PPG Flooring™ 1010

Formerly known as Milamar ICO Floor SL

DESCRIPTION

Three-component, 100% solids, low odor epoxy flooring resurfacer

PRINCIPAL CHARACTERISTICS

- Self-leveling
- Excellent adhesion to concrete, wood, metal, tile and brick
- Good impact and abrasion resistance
- Excellent resistance to acids, caustics, detergents and other corrosive materials
- Can be mixed with various aggregates to create a smooth, high gloss finish or slip resistance
- TYPICAL USES:
- Industrial and commercial warehouses
- Airplane hangars
- Schools
- Hospitals

COLOR AND GLOSS LEVEL

- White, Gray, Dark Gray, Beige, Yellow, Red, Green, Blue, Brown, Black
- High gloss

BASIC DATA AT 77°F (25°C)

Data for mixed product	
Number of components	Three
Mass density	9.7 lb/US gal (1.2 kg/l)
Volume solids	100 ± 2%
VOC (Supplied)	EPA Method 24: 0.1 lb/US gal (9.1 g/l)
Recommended dry film thickness	60 - 125 mils (1500 to 3175 µm)
Theoretical spreading rate	13 ft^2/US gal for 31.3 mils (0.3 m^2/l for 794 µm) 25 ft^2/US gal for 15.6 mils (0.6 m^2/l for 397 µm)
Dry to walk on	26 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 Part C: at least 12 months when stored cool and dry

Notes:

- Listed data for mixed product using standard hardener.
- Material should be stored in dry conditions, out of direct sunlight, and in unopened original factory containers

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RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

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 surfaces to be covered should be power washed, shot blasted, acid etched, scarified or sanded to present a clean, sound substrate
- All openings, cracks or voids shall be repaired
- New concrete must cure a minimum of 28 days prior to application
- Prepare in accordance with SSPC SP-13 guidelines

Substrate temperature and application conditions

- Ambient temperature should be at least 50°F (10°C) during application
- The prepared surface should have a pH of 7.0

INSTRUCTIONS FOR USE

Mixing ratio

- With standard hardener, Mixing Ratio by Volume: Part A to Part B 2.53:1
- With fast cure (FC) hardener, Mixing Ratio by Volume: Part A to Part B 2.93:1
- If adding aggregate, Mixing Ratio by Volume of Aggregate to Mixed A & B 1:1
- Mix all parts together using a low speed jiffy-type mixer
- Properly mixed material will be a uniform color without light or dark spots
- Do not add solvents; product is a 100% solids epoxy

Application

- Only apply over a tack free primer to help prevent outgassing
- Apply by notched rubber squeegee or steel trowel. Use porcupine roller to improve air release
- If a slip-resistant surface is desired, allow product to dry and apply a top coat of PPG Flooring™ 610 SL and broadcast in fine silica sand or aluminum oxide.
- For a decorative look, add vinyl flakes followed by a clear topcoat application.

Notes:

- Do not apply below 50°F (10°C)
- Do not apply at less than 60 mils (1524 µm) per coat
- Do not apply on a floor sloped > 1/8 in. per ft. (10.4 mm per meter)
- Do not apply in severe thermal shock environment
- Do not apply the fast cure version above 70°F (21°C)

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Pot life

40 minutes at 77°F (25°C)

Notes:

- See ADDITIONAL DATA – Pot life
- Listed data is for product with standard hardener.

CLEANING PROCEDURE

- All application equipment must be cleaned immediately after use

ADDITIONAL DATA

Working time for product with standard hardener

- Working time is 40 minutes at 50°F (10°C)
- Working time is 30 minutes at 70°F (21°C).
- Working time is 20 minutes at 90°F (32°C)

Working time for product with fast cure (fc) hardener

- Working time is 15 minutes at 50°F (10°C)
- Working time is 12 minutes at 77°F (25°C)
- Working time is 10 minutes at 90°F (32°C)

Physical data of cured material	
Characteristic	**Value**
Tensile Strength (ASTM C307)	1920 psi (13238 kPa)
Tensile Elongation (ASTM C307)	12%
Flexural Strength (ASTM C580)	1760 psi (12135 kPa)
Compressive strength (ASTM C579)	6170 psi (42541 kPa)
Hardness, Shore D (ASTM D2240)	73
Bond Strength (ASTM C482)	>1000 psi (>6895 kPa)
Flammability (ASTM D-635)	Self-Extinguishing
Coefficient of Thermal Expansion (D696)	$1.7x10^{-5}$ per °F ($3.06x10^{-5}$ per °C)
Impact Resistance (ASTM D5420)	120 lb-in. (13.6 Nm)
Water Absorption (ASTM D570)	0.2% in 24 hours
Taber Abrasion (ASTM D1044, CS-17 Wheel, 1 kg load, 1000 cycles)	106 mg loss

Note:

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- 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.

Curing time with standard hardener		
Substrate temperature	**Dry to walk on**	**Resistant to vehicular service**
50°F (10°C)	60 hours	70 hours
77°F (25°C)	26 hours	34 hours
90°F (32°C)	14 hours	20 hours

Curing time with fast cure (FC) hardener		
Substrate temperature	**Dry to walk on**	**Resistant to vehicular service**
50°F (10°C)	30 hours	40 hours
77°F (25°C)	18 hours	24 hours
90°F (32°C)	8 hours	12 hours

Pot life for product with standard hardener	
Mixed product temperature	**Pot life**
50°F (10°C)	20 minutes
77°F (25°C)	15 minutes
90°F (32°C)	10 minutes

Pot life for product with fast cure (FC) hardener	
Mixed product temperature	**Pot life**
50°F (10°C)	20 minutes
77°F (25°C)	15 minutes
90°F (32°C)	10 minutes

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 PMC representative for specific instructions and in order to make sure that the product performance can be safeguarded.

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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

- 5-gallon kits