

PPG Flooring™ 610 SL

formerly known as Milamar ICO Floor Coating

DESCRIPTION

Two-component, self-priming and self-leveling epoxy coating

PRINCIPAL CHARACTERISTICS

- Self-leveling
- Low odor
- Spray, brush and roller application
- Self-priming on concrete, metal and wood surfaces
- Excellent adhesion
- Excellent resistance to acids, caustics, detergents and other corrosive materials
- High resilience to thermal shock and mechanical impact
- Can be mixed with specially graded aggregates to create a slip resistant surface texture
- Compliant with USDA Incidental Food Contact Requirements
- TYPICAL USES:
- Industrial and commercial warehouses
- Suitable for areas with light to medium impact
- Intermediate coat underneath UV-resistant polyurethane coatings for a smooth finish

COLOR AND GLOSS LEVEL

- White, Light Gray, Dark Gray, Beige, Blue, Tile Red, Safety Yellow, Black
- High gloss

BASIC DATA AT 70°F (21°C)

Data for mixed product	
Number of components	Two
Mass density	11.7 lb/US gal (1.4 kg/l)
Volume solids	100 ± 2%
VOC (Supplied)	max. 0.1 lb/US gal (approx. 10 g/l)
Recommended dry film thickness	5.0 - 30.0 mils (127 - 762 µm) per coat
Theoretical spreading rate	160 ft²/kit over broadcast (3.9 m²/kit)
Dry to touch	14 hours
Dry to walk on	28 hours
Overcoating Interval	Minimum: 28 hours Maximum: 36 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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- Recommended dry film thickness dependent on substrate and service conditions
- If overcoat time is exceeded, abrade and clean surface before recoating
- See ADDITIONAL DATA – Curing time
- 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, at temperatures above 60°F (16°C) and below 80°F (27°C).
- Listed data for mixed product using standard hardener.

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
- 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

INSTRUCTIONS FOR USE

Mixing ratio

- With standard hardener, Mixing Ratio by Volume: Part A to Part B 3:1
- With fast cure (FC) hardener, Mixing Ratio by Volume: Part A to Part B 2.85:1
- Pre-mix Part A prior to combining with Part B, using a low speed jiffy-type mixer for 1 minute
- Pour Part B into Part A container and mix 1-2 minutes with a slow speed mixer, until homogeneous
- Properly mixed material will be a uniform color without light or dark spots
- Apply immediately after mixing

Application

- Immediately after mixing, pour the mixture onto the floor in a ribbon pattern and spread with a notched rubber squeegee
- Back roll to ensure proper coverage and absorption
- Before recoating, allow the surface to cure sufficiently to support foot traffic, but before vehicle traffic
- A suitable aggregate may be broadcast into the first coat and backrolled to provide a more uniform texture
- Do not apply when temperatures are below 50°F (10°C)
- Product working time is 40 minutes at 50°F (10°C)
- Product working time is 30 minutes at 70°F (21°C)
- Product working time is 20 minutes at 90°F (32°C)

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Pot life

40 minutes at 70°F (21°C)

Notes:

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

Cleaning procedure

- All application equipment must be cleaned immediately after use

ADDITIONAL DATA

Recoat window for standard cure hardener

- Between 8 and 14 hours at 90°F (32°C)
- Between 28 and 36 hours at 70°F (21°C)
- Between 60 and 70 hours at 50°F (10°C)

Recoat window for fast cure (fc) hardener

- Between 8 and 14 hours at 90°F (32°C)
- Between 40 and 54 hours at 50°F (10°C)
- Between 14 and 20 hours at 70°F (21°C)

Working time for product with fast cure (FC) hardener

- Working time is 8 minutes at 70°F (21°C)
- Working time is 15 minutes at 50°F (10°C)
- Working time is 4 minutes at 90°F (32°C)

Physical data of cured material	
Characteristic	Value
Tensile Strength (ASTM D638)	2,705 psi (19 MPa)
Tensile Elongation (ASTM D638)	11%
Bond Strength (ASTM C482)	To concrete failure
Hardness, Shore D (ASTM D2240)	86
Taber Abrasion (ASTM D1044, CS-17 Wheel, 1 kg load, 1000 cycles)	106 mg loss

Note:

- 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.

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Curing time with standard hardener

Substrate temperature	Resistant to vehicular service	Dry to walk on	Dry to touch
50°F (10°C)	70 hours	60 hours	24 hours
70°F (21°C)	36 hours	28 hours	14 hours
90°F (32°C)	14 hours	8 hours	5 hours

Curing time with fast cure (FC) hardener

Substrate temperature	Resistant to vehicular service	Dry to walk on	Dry to touch
50°F (10°C)	54 hours	40 hours	20 hours
70°F (21°C)	20 hours	14 hours	6 hours
90°F (32°C)	14 hours	8 hours	3 hours

Pot life for product with standard hardener

Mixed product temperature	Pot life
50°F (10°C)	50 minutes
70°F (21°C)	40 minutes
90°F (32°C)	25 minutes

Note:

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

Pot life for product with fast cure (FC) hardener

Mixed product temperature	Pot life
50°F (10°C)	20 minutes
70°F (21°C)	12 minutes
90°F (32°C)	8 minutes

Note:

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

Product Qualifications

- Compliant with USDA Incidental Food Contact Requirements



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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.

SAFETY PRECAUTIONS

- Care should be taken to prevent eye and skin contact
- 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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