

PPG NOVAGUARD™ 5041

Formerly known as Milamar ICO Hi Guard Coating

DESCRIPTION

Two-component, 100% solids, chemical resistant novolac epoxy coating

PRINCIPAL CHARACTERISTICS

- 100% solids
- Easy clean
- Resists concentrated acids, caustics and some solvents
- High resilience to thermal shock and mechanical impact
- Spray, brush and roller application
- Bonds to dry and damp concrete, wood, metal, tile, terrazzo and existing epoxy and urethane coatings
- TYPICAL USES:
- Interior or Exterior Usage
- Surfaces where exposure to concentrated acids and caustics may be expected
- Chemical plants
- Paper and pulp mills
- Plating operations
- Suitable for many secondary containment applications

COLOR AND GLOSS LEVEL

- Gray, Dark Gray, Beige, Red, Green, Black, Blue
- High gloss

BASIC DATA AT 20°C (68°F)

Data for mixed product	
Number of components	Two
Mass density	10.5 lb/US gal (1.3 kg/l)
Volume solids	100%
VOC (Supplied)	max. 0.1 lb/US gal (approx. 15 g/l)
Recommended dry film thickness	10.0 mils (250 µm) per coat
Theoretical spreading rate	160 ft ² /US gal for 10.0 mils (3.9 m ² /l for 250 µm)
Dry to walk on	16 hours
Overcoating Interval	24 hours
Full cure after	7 days

Notes:

- If overcoat time is exceeded, abrade and clean surface before recoating
- Drying times listed may vary depending on temperature, humidity and air movement
- Curing time reflects ready for service time
- The shelf life for the unmixed components (Part A and Part B) for this product is 12 months at 77°F (25°C)
- Refer to Application Guide for additional information

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RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

Concrete

- All surfaces must be sound, 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 of this product
 - Prepare in accordance with SSPC SP-13 guidelines
 - Concrete pH must be 7.0 or higher
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SYSTEM SPECIFICATION

- Anti-slip characteristics may be enhanced by the addition of quartz or aluminum oxide

Chemical resistance (splash/spill)

- 98% sulfuric acid
- 85% phosphoric acid
- 88% lactic acid
- 20% acetic acid
- Concentrated alkalis
- Many solvents

Notes:

- A more complete list of chemical resistances is available by request from PPG PMC Technical Services
 - To maximize service life, chemical splash and spills should be cleaned promptly
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INSTRUCTIONS FOR USE

Mixing ratio by volume: Part A to Part B 2.2:1

- Mix Part A for 30-60 seconds using a low speed Jiffy-type mixer
 - Pour Part B into Part A container and thoroughly mix the two components of the kit together
 - Properly mixed material will be a uniform color without light or dark spots
 - For recommended application instructions, see working procedure
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Application

- If priming, allow the primer to dry tack free
- Apply the mixed material with a fine nap roller, squeegee or brush
- Apply a second coat while the first coat is still tack, if using spike shoes, or dry enough to walk on, but before 24 hours at 77°F (25°C)
- A suitable aggregate may be broadcast onto the surface and back rolled to provide more anti-slip profile to the finished surface
- Product working time is 25 minutes at 77°F (25°C)
- Do not apply when temperatures are below 50°F (10°C)
- No thinner should be added

Notes:

- Working time will vary with temperature
- No priming is necessary on concrete of average porosity. On concrete surfaces with an open porosity or wood surfaces, apply PPG Flooring 912 LV to help prevent outgassing, bubbling, and pin holing from escaping entrapped air

Pot life

25 minutes at 77°F (25°C)

ADDITIONAL DATA

Physical data of cured material	
Characteristic	Value
Tensile Strength (ASTM D638)	5,160 psi (36 MPa)
Tensile Elongation (ASTM D638)	6%
Flexural Strength (ASTM D790)	3,670 psi (25 MPa)
Bond Strength (ASTM C482)	>1000 psi (>6.9 MPa)
Hardness, Shore D (ASTM D2240)	80
Taber Abrasion (ASTM D1044, CS-17 Wheel, 1 kg load, 1000 cycles)	110 mg loss
Water Absorption (ASTM D570)	0.2%

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Pot life (at application viscosity)	
Mixed product temperature	Pot life
50°F (10°C)	35 minutes
77°F (25°C)	25 minutes
90°F (32°C)	12 minutes

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

- 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

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