PPG NOVAGUARD® 5030

Formerly known as Milamar ICO-Glaze

DESCRIPTION

100% solids, multi-step protective epoxy coating system for vertical and overhead applications on cementitious substrates, gypsum board, and plaster substrates

PRINCIPAL CHARACTERISTICS

- Excellent adhesion to dry and damp substrates
- Easy cleaning
- Excellent flexibility
- Excellent chemical resistance
- Seals cementitious substrates without use of block fillers
- Resistant to mold and moisture penetration
- Can be used on concrete, wood, metal, tile, and terrazzo
- Can be used in fiberglass laminated wall coating systems. Contact PPG Technical Service for details.
- Good resistance to hot water

COLOR AND GLOSS LEVEL

- Gray, White
- Gloss

BASIC DATA AT 70°F (21°C)

Data for mixed product	
Number of components	Two
Volume solids	100 ± 2%
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:

- 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).
- See ADDITIONAL DATA – Curing time
- See ADDITIONAL DATA – Recoating windows
- See ADDITIONAL DATA – Spreading rate and film thickness
- See ADDITIONAL DATA – Working times

RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

- All surfaces must be sound, clean, free of oil, grease, dirt, mildew, curing compounds, loose and flaking paint, and other foreign substances
- On worn, spalled concrete, pre-fill with NOVAGUARD 5090 and allow to dry tack-free.
- Can be applied to previously painted epoxy coatings in sound condition
- Mechanically abrade and clean previously installed coating

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INSTRUCTIONS FOR USE

- New Concrete: Prime with PPG Flooring 912 XT (formerly known as ICO Primer XT)
- Use NOVAGUARD 5090 (formerly ICO GEL) Epoxy Fill to smooth CMU walls and fill bug holes in poured concrete walls
- For UV stability, finish coat with urethane or polysiloxane

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Mixing ratio

- With standard hardener, Mixing Ratio by Volume: Part A to Part B 2.3:1
- With fast cure (FC) hardener, Mixing Ratio by Volume: Part A to Part B 3.4:1
- Pre-mix Part A prior to combining with Part B, using a low speed jiffy-type mixer for 30-60 seconds
- Pour Part B into Part A container and thoroughly mix the two components of the kit together for at least 30-60 seconds at low speeds.

Application

- For application temperatures below 50°F (10°C), use fast cure version
- Base Coat: Apply by 3/8 in (9.5 mm) nap roller, squeegee, blade, or airless spray
- Top Coat: Apply by 1/4 in (6.35 mm) nap roller or airless spray

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ADDITIONAL DATA

Working Time of Base Coat

- Working time is 35 minutes at 50°F (10°C)
- Working time is 25 minutes at 70°F (21°C)
- Working time is 15 minutes at 90°F (32°C)

Working Time of Top Coat

- Working time is 50 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 35 minutes at 40°F (4°C)
- Working time is 25 minutes at 50°F (10°C)
- Working time is 20 minutes at 70°F (21°C)

Recoat windows

- Base Coat: 5-15 hours at 70°F (21°C)
- Top Coat: 6-20 hours at 70°F (21°C)

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Physical data of cured material	
Characteristic	**Value**
Impact Strength	80 inch-pounds (9 Nm)
Tensile Strength (ASTM D638)	1560 psi (10.8 MPa)
Tensile Elongation (ASTM D638)	9%
Flexural Strength (ASTM D790)	4140 psi (28.5 MPa)
Water Absorption (ASTM D570)	0.2% in 24 hours
Hardness, Shore D (ASTM D2240)	80
Taber Abrasion (ASTM D1044, CS-17 Wheel, 1 kg load, 1000 cycles)	105 mg loss

Spreading rate and film thickness	
DFT	**Theoretical spreading rate**
Prime Coat (PPG FLR 912 XT): 10.0 mils (250 µm)	160 ft^2/US gal (3.9 m^2/l)
Top Coat: 10.0 mils (250 µm)	160 ft^2/US gal (3.9 m^2/l)
Base Coat: 15.0 mils (375 µm)	100 ft^2/US gal (2.5 m^2/l)

Curing time for Base Coat		
Substrate temperature	**Tack free time**	**Dry hard**
50°F (10°C)	9 hours	26 hours
70°F (21°C)	4.5 hours	15 hours
90°F (32°C)	2 hours	4 hours

Curing time for Top Coat		
Substrate temperature	**Tack free time**	**Dry hard**
50°F (10°C)	12 hours	30 hours
70°F (21°C)	6.5 hours	18 hours
90°F (32°C)	4.5 hours	5.5 hours

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Curing time for Base Coat/Top Coat with Fast Cure (FC) Hardener		
Substrate temperature	**Tack free time**	**Dry hard**
40°F (4°C)	16 hours	32 hours
50°F (10°C)	10 hours	26 hours
70°F (21°C)	4 hours	12 hours

Pot life of Base Coat	
Mixed product temperature	**Pot life**
50°F (10°C)	50 minutes
70°F (21°C)	35 minutes
90°F (32°C)	12 minutes

Pot life of Top Coat	
Mixed product temperature	**Pot life**
50°F (10°C)	65 minutes
70°F (21°C)	55 minutes
90°F (32°C)	20 minutes

Pot life of Base Coat/Top Coat with Fast Cure (FC) Hardener	
Mixed product temperature	**Pot life**
40°F (4°C)	20 minutes
50°F (10°C)	20 minutes
70°F (21°C)	15 minutes

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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AVAILABILITY OF PACKAGING

Packaging

- 4-gallon kits