DESCRIPTION

100% solids, epoxy coating designed for longer pot life and trowel application

PRINCIPAL CHARACTERISTICS

- Ultra-high build characteristics
- · Excellent chemical resistance
- · Bonds to dry and damp concrete, masonry and steel
- Acceptable for both new and existing structures
- TYPICAL USES:
- Wastewater structures, buried pipelines, tanks and other corrosive environments
- The trowel option is ideal for areas where a spray application is not feasible
- · Resurfacing or holiday repairs with pre-mixed kits

COLOR AND GLOSS LEVEL

- · Part A is White, Part B is Blue; Mixed product is Light Blue
- Addition of white Raven 240 (Part C) will shift the color slightly lighter
- Semi-gloss

Note:

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

BASIC DATA AT 72°F (22°C)

Data for mixed product		
Number of components	Two	
Mass density	10.0 lb/US gal (1.2 kg/l)	
Volume solids	100 ± 2%	
VOC (Supplied)	EPA Method 24: 0.0 lb/US gal (0.5 g/l)	
Recommended dry film thickness	80.0 - 500.0 mils (2000 - 12500 μm) per coat	
Theoretical spreading rate	20 ft²/US gal for 80.0 mils (5.0 m²/l for 2000 μm) 6 ft²/US gal for 250.0 mils (0.6 m²/l for 6250 μm)	
Dry to touch	3.5 hours	
Overcoating Interval	Minimum: Coating should no longer leave residue when touched with a gloved finger Maximum: 12 Hours	
Curing time	5 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	

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Notes:

- Listed spreading rate is for mixed Part A & Part B only. Theoretical spreading rate for A, B & C combined is 31 ft² at 125 mils for the entire 2.42 gallon kit (2.92 m² at 3175 μm for the entire 9.2 liter kit).
- See ADDITIONAL DATA Spreading rate and film thickness
- If overcoat time is exceeded, abrade and clean surface before recoating
- Curing time reflects ready for service time
- 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 100°F (38°C)

RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

Concrete / Masonry

- Surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, dirt, loose rust, and other foreign material to ensure adequate adhesion.
- Abrade surface to achieve a surface profile equivalent to CSP 3 to CSP 5 in accordance with ICRI 310.2R-2013
- · Prepare in accordance with SSPC SP-13 guidelines
- · Concrete pH must be 8.0 or higher

Note:

- For best results in limiting outgassing, apply to prepared concrete when the substrate temperature is stable or falling

Steel (immersion service)

- Remove all surface contaminants, oil and grease in accordance with SSPC SP-1
- Abrasive blast with an angular abrasive to an SSPC SP-10 cleanliness or higher. Achieve a surface profile of 3.0 5.0 mils (75 – 125 μm)

Substrate temperature

Substrate temperature during application should be between 50°F (10°C) and 120°F (49°C)

SYSTEM SPECIFICATION

- Recommended DFT for New/Smooth Concrete: 80-250 mils (2030-6350 μm)
- Recommended DFT for Rough Concrete: 100-500 mils (2540-12700 μm)
- Recommended DFT for Resurfaced Concrete: 80-250 mils (2030-6350 μm)
- Recommended DFT for Masonry/Brick: 125-250 mils (3175-6350 μm)
- Recommended DFT for Resurfaced Masonry/Brick: 80-250 mils (2030-6350 μm)
- Recommended DFT for Steel (Carbon): 30-80 mils (762-2030 μm)
- Primers for concrete (optional): PPG RAVEN® 175 Primer, PPG RAVEN® 171FS Primer, PPG RAVEN® 155 Primer
- Primers for Carbon Steel: PPG AQUATAPOXY® 190 Primer*, PPG AQUATAPOXY® 90 Epoxy Coating*
- Primers for non-ferrous metals: PPG AQUATAPOXY® 190 Primer*

Note:

- *Do not use this primer if immersion temperatures will exceed 140°F (60°C)

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INSTRUCTIONS FOR USE

Mixing ratio by volume: Part A to Part B 3:1

- · Only mix full kits
- Mix Part A and Part B separately to ensure uniformity. Then, pour Part B into Part A container and thoroughly mix the two components of the kit together for 2 minutes with mechanical jiffy-type mixer
- Optional Part C, needs to be added to the mixed Part A & Part B at 50% by weight
- · Properly mixed material will be a uniform color without light or dark spots
- The temperature of the unmixed material should not be above 120°F (48°C)

Pot life

30 minutes at 72°F (22°C)

Notes:

- Longer pot life is possible by mixing smaller amounts and cooling down the components before mixing
- Listed pot life is for 0.5 US gallon (1.9 liter) quantity

Trowel

. When the optional Part C is added to Part A & Part B, apply with trowel or putty knife

Recommended thinner

No thinner should be added

Brush/roller

· Apply mixed material with squeegee, brush or roller

Recommended thinner

No thinner should be added

Cleaning solvent

· MEK, acetone, or xylene

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ADDITIONAL DATA

Physical data of cured material		
Characteristic	Value	
Tensile Strength (ASTM D638)	>4,900 psi (>34 MPa)	
Tensile Elongation (ASTM D638)	>0.7%	
Compressive Strength (ASTM D695)	>18,600 psi (>128 MPa)	
Flexural Strength (ASTM D790)	>10,100 psi (>70 MPa)	
Tensile Strength (ASTM D638)	>4,000 psi (>28 MPa) (*)	
Tensile Elongation (ASTM D638)	>0.5% (*)	
Compressive Strength (ASTM D695)	>11,200 psi (>77 MPa) (*)	
Flexural Strength (ASTM D790)	>8,000 psi (>55 MPa) (*)	
Hardness, Shore D (ASTM D2240)	85	
Adhesion to Concrete (ASTM D7234)	To substrate failure	

Notes:

- 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.
- (*) Noted values are for product when tested with optional Part C mixed in at 50% of the weight of the combined Part A & Part B

Spreading rate and film thickness for Parts A & B		
DFT	Theoretical spreading rate	
30.0 mils (762 μm)	53 ft²/US gal (1.3 m²/l)	
80.0 mils (2032 μm)	20 ft²/US gal (0.5 m²/l	
100.0 mils (2540 μm)	16 ft²/US gal (0.4 m²/l)	
125.0 mils (3175 μm)	13 ft²/US gal (0.3 m²/l)	
250.0 mils (6350 μm)	6 ft²/US gal (0.2 m²/l)	
500.0 mils (12700 μm)	3 ft²/US gal (0.1 m²/l)	



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Spreading rate and film thickness for Parts A, B & C		
DFT	Theoretical spreading rate	
30.0 mils (762 μm)	63 ft²/US gal (5.4 m²/l)	
80.0 mils (2032 μm)	23 ft²/US gal (2.0 m²/l)	
100.0 mils (2540 μm)	19 ft²/US gal (1.6 m²/l	
125.0 mils (3175 μm)	15 ft²/US gal (0.5 m²/l)	
250.0 mils (6350 μm)	8 ft²/US gal (0.7 m²/l)	
500.0 mils (12700 μm)	4 ft²/US gal (0.3 m²/l)	

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.
- 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

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 PUPPOSE 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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