

PPG Flooring™ 823 CR

Formerly known as PM300

DESCRIPTION

Two-component, cycloaliphatic amine cured, pigmented, high-build epoxy coating, designed to be used where extra chemical, impact and abrasion resistance is required

PRINCIPAL CHARACTERISTICS

- Excellent chemical resistance
- Excellent abrasion and impact resistance
- Excellent resistance against impact and wear
- Cycloaliphatic chemistry provides better UV stability than standard epoxies
- Can be mixed with various aggregates to create a smooth, high gloss finish or slip resistance
- TYPICAL USES:
- Heavy duty coating over concrete or steel
- Finish coat for an epoxy mortar or broadcast overlay
- Primer/color coating for urethane finishes
- Industrial and commercial areas
- High build system for heavy traffic areas

COLOR AND GLOSS LEVEL

- White, Gray, Dark Gray, Tile Red and Mocha
- High gloss

BASIC DATA AT 75°F (24°C)

Data for mixed product	
Number of components	Two
VOC (Supplied)	max. 0.6 lb/US gal (approx. 76 g/l)
Recommended dry film thickness	8.0 - 16.0 mils (200 - 400 µm) depending on system
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, in unopened original factory containers, at temperatures above 50°F (10°C) and below 90°C (32°C)
- Do not allow product to freeze

RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

- Primers are necessary only when the substrate is porous
- Surface must be clean, uniform, sound, and free from contamination (such as oil, grease, rust, scale, or deposits)
- Coating performance is proportional to the degree of surface preparation
- Ambient temperature during application and curing should be between 60°F (16°C) and 90°F (32°C)



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Concrete

- New concrete must cure a minimum of 28 days prior to application of this product
 - Moisture vapor transmission should not exceed 5 lb/1000 ft² (24.4 g/m²) over 24 hours
 - Surface must be acid etched, scarified, or shot blasted to remove laitance.
 - Prepare in a manner that provides a neutralized surface
 - Surface texture of 100 grit sandpaper is desired for maximum adhesion
 - Prepare in accordance with SSPC SP-13 guidelines
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Steel

- Remove all surface contaminants, oil and grease in accordance with SSPC SP-1
 - Abrasive blast with an angular abrasive to an SSPC SP-5 (NACE No. 1) cleanliness for optimum performance
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SYSTEM SPECIFICATION

Chemical resistance (splash/spill)

- Acetone
- Acetic Acid
- 10% Nitric Acid
- Sulfuric Acid 45%

Note:

- Some discoloration may occur after prolonged contact with certain chemicals, though the coating integrity will remain intact for the expected life of the product
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Chemical resistance (Prolonged contact up to 7 days)

- 50% acetic acid
 - Ammonium Hydroxide 28%
 - Ethylene Glycol
 - Gasoline
 - Isopropyl Alcohol 98%
 - Mineral Spirits
 - Skydrol #500
 - Sodium Hydroxide 30%
 - Toluene
 - Urine - Synthetic 6.6%
 - Bleach
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INSTRUCTIONS FOR USE

Mixing ratio by volume: Part A to Part B 2:1

- Mixing preparation is dependent on ambient, substrate, and material temperature.
 - Apply immediately after mixing
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Application

- Apply by roller or squeegee and back roll
- If a slip resistant finish is required, the appropriate aggregate can be broadcast into the wet surface once the coating has been applied and locked in with subsequent coat(s)

Material temperature

- Material temperature during application should be between 70°F (21°C) and 100°F (38°C)

CLEANING PROCEDURE

- All application equipment must be cleaned immediately after use

ADDITIONAL DATA

Physical data of cured material	
Characteristic	Value
Compressive strength (ASTM C579)	12,000 psi (83 MPa)
Tensile Strength (ASTM D638)	5,300 psi (37 MPa)
Flexural Strength (ASTM C580)	5,351 psi (36.89 MPa)
Bond strength (ASTM D4541)	>300 psi (>2 MPa)
Linear Shrinkage (ASTM C883)	nil
Hardness, Shore D (ASTM D2240)	84 @ 75°F (24°C)
Water Absorption (ASTM C413)	0.009%
Indentation (MIL-D-3134F)	nil
Tensile Elongation (ASTM D638)	2.1%
Flammability (MIL-D-3134F)	Fire Retardant

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.

DISCLAIMER

- Chemical resistance properties shown on the data sheet are for general information only. Always check with PPG PMC Technical Support to verify resistance to the specific chemical exposure for the service being considered.
- Not recommended for exterior use
- 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 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

- 3-gallon and 15-gallon kits

