

PPG Flooring™ 618 Epoxy Coating

Formerly known as Milamar PM 180 Elastomeric Epoxy

DESCRIPTION

Two-component, 100% solids, multi-purpose, elastomeric epoxy

PRINCIPAL CHARACTERISTICS

- Good chemical resistance
- Excellent abrasion and impact resistance
- Good color retention
- High crack resistance
- Can be mixed with various aggregates to create a smooth, high gloss finish or slip resistance
- Can be used as a stand-alone coating
- Compliant with USDA Incidental Food Contact Requirements
- TYPICAL USES:
- Suitable for use as a mechanical floor coating
- High-strength joint filler
- Can be used as a reflective crack damper under more rigid overlays
- Pick resistant caulk

Notes:

- Information Sheet available with test and certification data
- This product was previously sold as Milamar PM 180 Elastomeric Epoxy Coating

COLOR AND GLOSS LEVEL

- Clear, Gray, Dark Gray
- High gloss

BASIC DATA AT 72°F (22°C)

Data for mixed product	
Number of components	Two
Mass density	8.9 lb/US gal (1.1 kg/l)
Volume solids	100 ± 2%
VOC (Supplied)	EPA Method 24: 0.0 lb/US gal (2.9 g/l)
Dry to touch	8 hours
Overcoating Interval	Minimum: Coating should no longer leave residue when touched with a gloved finger Maximum: 24 hours
Curing time	24 hours

Notes:

- The shelf life for the unmixed components (Part A and Part B) for this product is 12 months at 70°F (21°C).
- Refer to Application Guide for additional information



PPG Flooring™ 618 Epoxy Coating

Formerly known as Milamar PM 180 Elastomeric Epoxy

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
- Surface texture of 100 grit sandpaper is desired for maximum adhesion
- Prepare in accordance with SSPC SP-13 guidelines
- Cracks should be routed out to at least 1/2" at the surface and a depth of 1/2". On deep cracks or control joints, use a backer rod to set depth.

Substrate temperature and application conditions

- Ambient temperature should be between 50°F (10°C) and 90°F (32°C) during application
- Ambient temperature should not exceed 170°F (77°C)

SYSTEM SPECIFICATION

- Avoid on- or below-grade applications where water vapor transmission is > 4 lb/1,000 sq ft (1.8 kg/93 sq m) per 24 hours.
- Very resistant to most common industrial chemicals and solvents.
- A complete list of chemical resistances is available upon request.

Chemical Resistance (Splash/Spill)

- 28% ammonium hydroxide
- Ethylene Glycol
- Gasoline
- 98% Isopropyl Alcohol
- Skydrol #500
- Sodium Hydroxide 30%

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.
- Some discoloration may occur after prolonged contact with certain chemicals, though the coating integrity will remain intact.

INSTRUCTIONS FOR USE

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

- Mix Part A and Part B separately to ensure uniformity. Then thoroughly mix the entire contents of both parts of the kit together. Scrape sides and bottoms of containers

Application

- 25 mils (635 µm) is normally applied in a membrane coating or a crack damp installation
- Where a slip resistant finished floor is required, an additional coat with the appropriate aggregate can be pre-mixed with the A- and B-components or broadcast into the wet coating
- As a crack sealer or pick resistant caulk, pre-mixed A- and B-components can be applied with any appropriate bulk caulk apparatus



PPG Flooring™ 618 Epoxy Coating

Formerly known as Milamar PM 180 Elastomeric Epoxy

ADDITIONAL DATA

Physical data of cured material	
Characteristic	Value
Tensile Strength (ASTM D638)	3,386 psi (23 MPa)
Compressive strength (ASTM C579)	12,180 psi (84 MPa)
Tensile Elongation (ASTM D638)	80% & 150%*
Flexural Strength (ASTM C580)	3,180 psi (22 MPa)
Bond strength (ASTM D4541)	>300 psi (>2.1 MPa)
Hardness, Shore A (ASTM D2240)	70
Linear Shrinkage (ASTM C883)	None
Water Absorption (ASTM C413)	0.010%
Flammability (ASTM D-635)	Fire Retardant
Indentation (MIL-D-3134F)	0.010"/0.00"

Notes:

- *Two formulations available
- The value ranges stated in this Technical Data Sheet are based on system processing under laboratory conditions. Equipment configurations and/or field application conditions may produce variances in final system values.

Product Qualifications

- Compliant with USDA Incidental Food Contact Requirements

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 for specific instructions and in order to make sure that the product performance can be safeguarded.

SAFETY PRECAUTIONS

- Read all label and Safety Data Sheet (SDS) information prior to use

WORLDWIDE AVAILABILITY

It is always the aim of PPG Protective and 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.



PPG Flooring™ 618 Epoxy Coating

Formerly known as Milamar PM 180 Elastomeric Epoxy

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.

LIMITATIONS OF LIABILITY

IN NO EVENT WILL PPG BE LIABLE UNDER ANY THEORY OF RECOVERY (WHETHER BASED ON NEGLIGENCE OF ANY KIND, STRICT LIABILITY OR TORT) FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES IN ANY WAY RELATED TO, ARISING FROM, OR RESULTING FROM ANY USE MADE OF THE PRODUCT. The information in this sheet is intended for guidance only and is based upon laboratory tests that PPG believes to be reliable. PPG may modify the information contained herein at any time as a result of practical experience and continuous product development. All recommendations or suggestions relating to the use of the PPG product, whether in technical documentation, or in response to a specific inquiry, or otherwise, are based on data, which to the best of PPG's knowledge, is reliable. The product and related information is designed for users having the requisite knowledge and industrial skills in the industry and it is the end-user's responsibility to determine the suitability of the product for its own particular use and it shall be deemed that Buyer has done so, as its sole discretion and risk. PPG has no control over either the quality or condition of the substrate, or the many factors affecting the use and application of the product. Therefore, PPG does not accept any liability arising from any loss, injury or damage resulting from such use or the contents of this information (unless there are written agreements stating otherwise). Variations in the application environment, changes in procedures of use, or extrapolation of data may cause unsatisfactory results. This sheet supersedes all previous versions and it is the Buyer's responsibility to ensure that this information is current prior to using the product. Current sheets for all PPG Protective & Marine Coatings Products are maintained at www.ppgpmc.com. The English text of this sheet shall prevail over any translation thereof.

The PPG logo, and all other PPG marks are property of the PPG group of companies. All other third-party marks are property of their respective owners.

