

PPG Flooring™ 4500

Formerly known as Milamar 3500 Grout

DESCRIPTION

Three-component, 100% solids, floor coating system designed for trowel application

PRINCIPAL CHARACTERISTICS

- Rapid cure and fast overcoating
- Can be overcoated with a wide range of topcoats
- High build epoxy coat
- Excellent adhesion and durability
- Can be used to patch defects in substrate
- Designed for trowel application
- Can be applied in thickness from 0.5 – 8 in (1.27 – 20.32 cm)
- Excellent for patching or overlaying entire floor surfaces
- TYPICAL USES:
- Fill damaged areas
- Build up low areas
- Build or repair curbs and pads
- Patch machinery footprint damage
- Slope floor to drains

BASIC DATA AT 75°F (24°C)

Data for mixed product	
Number of components	Three
Volume solids	100 ± 2%
VOC (Supplied)	max. 0.1 lb/US gal (approx. 10 g/l)
Recommended dry film thickness	0.5 inch/500 mils (1.27 cm)
Theoretical spreading rate	3.9 ft ² /US gal for 0.5 in. (0.1 m ² /L for 1.27 cm)
Dry to overcoat	8 hours
Full cure after	96 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 Part C: 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
- A full 1-batch kit is designed to cover approximately 8 ft² at 0.5 inch/500 mils (0.74 m² at 1.27 cm)
- A full 1-batch kit has a volume of approximately 0.33 cubic feet



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RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

- Surface must be clean dry and sound
 - Substrate temperature during application and curing should be between 60°F (16°C) and 85°F (29°C)
 - Do not apply this product when substrate temperature is below 50°F (10°C) or above 90°F (32°C)
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Concrete

- Concrete must be in sound condition and free of all coatings, curing compounds, oil, laitance and other contaminants. New concrete must cure a minimum of 28 days prior to application.
 - All surfaces to be covered should be power washed, shot blasted, acid etched, scarified or sanded to present a clean, sound substrate
 - Surface texture of 60 grit sandpaper is desired for maximum adhesion
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INSTRUCTIONS FOR USE

- Recommended primer for concrete: PPG Flooring 912 LV (formerly known as Milamar ICO Primer LV). Refer to Technical Data Sheet
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Mix as packaged

- Product components are pre-packaged in proper ratio
 - Only mix full kits
 - Prior to use, the temperature of Part A and Part B should be at least 70°F (21°C) for at least 48 hours
 - Pour Part B into Part A container and mix 1-2 minutes with a slow speed mixer, until homogeneous
 - Slowly add part C and mix for another 1-2 minutes
 - Mix thoroughly by a mechanical mixer before application
 - Apply immediately after mixing
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Application

- Substrate must be primed first using PPG Flooring™ 912 LV Primer.
 - Product working time is 20-30 minutes at 75°F (24°C)
 - No thinner should be added
 - Apply with trowel
 - Recommended product thickness 0.5 – 8 in (1.27 – 20.32 cm)
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Trowel

- Pour the entire mixed batch onto floor as soon as fully mixed.
- Spread it immediately by use of a steel trowel or Swedish knife and level to the intended thickness

Recommended thinner

No thinner should be added

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CLEANING PROCEDURE

- Clean mixer and all tools immediately after use to prevent material from bonding to surfaces
- Clean tools and equipment with acetone or other solvent based cleaners
- Fully cured material can only be removed from equipment or surfaces through mechanical methods

ADDITIONAL DATA

Physical data of cured material	
Characteristic	Value
Compressive strength (ASTM C579)	11,500 psi (79,300 kPa)
Tensile Strength (ASTM D638)	1,750 psi (12,100 kPa)
Bond Strength (ASTM C321)	>350 psi (2,400 kPa); 100% concrete failure
Flexural Strength (ASTM C580)	3,500 psi (24,000 kPa)

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

- 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.

SAFETY PRECAUTIONS

- Never seal a container of mixed Part A and B as the continuing exothermic reaction may cause container to explode
- 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.

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

- 1-batch and 3-batch kits
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