

PPG Flooring 927 MMA HA/MT Primer

DESCRIPTION

Non-pigmented, low-viscosity acrylic resin formulated for adhesion to less permeable substrates such as ceramic, steel, and concrete, and is designed for use as a primer in MMA systems.

PRINCIPAL CHARACTERISTICS

- Rapid cure
- Excellent adhesion to concrete
- Can be applied to metal surfaces and properly prepared ceramic tiles
- Tolerant to slight moisture during application
- Can be applied to concrete with higher moisture values (formulated with moisture scavengers)
- Excellent bond to less permeable concrete
- Good wetting properties
- Allows for curing at lower temperatures
- Resistant to water and chemicals
- Meets USGBC LEED Requirements
- TYPICAL USES:
- Primer used as base coat for other MMA binder and sealer resins

COLOR AND GLOSS LEVEL

- Clear gold tone
- Satin

Note:

- Not to be pigmented

BASIC DATA AT 70°F (21°C)

Data for mixed product	
Number of components	Two
Mass density	8.3 lb/US gal (1.0 kg/l)
Volume solids	99% ± 2%
VOC (Supplied)	EPA Method 24: 0.8 lb/US gal (93.3 g/l)
Recommended dry film thickness	13.0 - 20.0 mils (330 - 508 µm) per coat
Theoretical spreading rate	120 ft ² /US gal for 13.0 mils (2.9 m ² /l for 330 µm) 80 ft ² /US gal for 20.0 mils (2.0 m ² /l for 508 µm)
Dry to touch	30 minutes
Dry to overcoat	30 minutes
Full cure after	55 minutes
Shelf life	Base: at least 12 months

Notes:

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- Basic product data is based on final mixed product of 5 US gallons (19 L) PPG Flooring 927 HA/MT MMA resin and 20 fl. oz. (591 mL) of PPG Flooring 6492 MMA Catalyst at 70°F (21°C)
- 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 75°F (24°C)
- See ADDITIONAL DATA – Curing time

RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

Substrate temperature and application conditions

- Substrate temperature during application should be between 30°F (-1°C) and 90°F (32°C)
- Substrate temperature during application should be at least 5°F (3°C) above dew point
- For slabs on grade, test for moisture in accordance with ASTM F1869 (calcium chloride test)
- Vapor transmission should be less than 3 lbs./1000 sq. ft. per 24 hr period
- Maximum relative humidity during application and curing is 80%

Concrete

- All surfaces must be sound, clean, free of oil, grease, dirt, mildew, curing compounds, loose and flaking paint, and other foreign substances
- New concrete must cure a minimum of 28 days prior to application
- Prepare surface as per SSPC-SP13 guidelines
- Abrade surface to achieve a surface profile equivalent to CSP 3 to CSP 5 in accordance with ICRI 310.2R-2013

SYSTEM SPECIFICATION

- A complete list of chemical resistances is available upon request.
- Resin product must be mixed with PPG Flooring™ 6492 MMA Catalyst at the volumes shown below prior to applying the mixed product to the prepared substrate.

Catalyst volumes by temperature

- Above 70°F (21.1°C) use 4 fl oz (118 ml) of the catalyst per gallon (3.8 L) of resin
- At 60°F (15.6°C) use 4-5 fl oz (118-148 ml) of the catalyst per gallon (3.8 L) of resin
- At 50°F (10.0°C) use 5-7 fl oz (148-207 ml) of the catalyst per gallon (3.8 L) of resin
- At 40°F (4.4°C) use 7-9 fl oz (207-266 ml) of the catalyst per gallon (3.8 L) of resin
- At temperatures below 40°F (4°C), PPG Flooring™ 6493 Cold Temperature Accelerator must be added to the resin before adding the catalyst. See below for more information on using 6493 CTA.
- At 30°F (-1.1°C) use 9-10 fl oz (266-296 ml) of the Catalyst per gallon (3.8 L) of resin

Notes:

- Indicated temperatures are for the resin, the ambient air, and the prepared substrate
- Do not use less than 4 fl oz (118 ml) of catalyst by volume unless confirmed by PPG Tech Services.

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Use of Cold Temperature Accelerator

- At temperatures below 40°F (4°C) add approximately ½ oz (15 ml) of PPG Flooring 6493 Cold Temperature Accelerator per gallon of resin
- VERY IMPORTANT: PPG Flooring 6493 Cold Temperature Accelerator MUST be added and thoroughly blended before adding the catalyst to prevent hazardous decomposition (i.e. aggressive foaming)
- PPG Flooring 6493 Cold Temperature Accelerator will cause yellowing. Use pigmented resin to reduce the appearance of yellowing

INSTRUCTIONS FOR USE

Preparation

- Mixing preparation is dependent on ambient, substrate, and material temperature.
- Pre-mix base component to homogenize the container. Add hardener and stir until completely dispersed. Blend at least 2-3 minutes with a slow speed (200-400 rpm) mixer
- Only mix subsets which can be processed within the pot life, due to rapid curing
- Apply immediately after mixing
- Mixed material cannot be left in the bucket and needs to be dispersed on the area to be coated

Note:

- Under dosage may result in curing disturbances; over dosage may result in color alterations

Application

- Apply by notched trowel or squeegee and back roll
- Apply two coats on very porous substrates
- To help with application of subsequent coatings, it is recommended to lightly broadcast 20 mesh sand or color quartz at 1-2 lb/100 ft² (0.5-0.9 kg/9.3 m²) into the wet primer
- Do not perform broadcast to rejection of aggregate, lightly broadcast only
- Ensure good ventilation during application and curing
- No thinner should be added

Note:

- Do not use as binder resin for troweled and slurry coatings

Material temperature

- Material temperature during application should be between 30°F (-1°C) and 90°F (32°C)

Pot life

15 minutes at 70°F (21°C)

Note:

- See ADDITIONAL DATA – Pot life

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Cleaning solvent

- Acetone or Ethyl Acetate

CLEANING PROCEDURE

- All application equipment must be cleaned immediately after use
- Fully cured material can only be removed from equipment or surfaces through mechanical methods

ADDITIONAL DATA

Physical data of cured material	
Characteristic	Value
Bond strength (ASTM D4541)	To Concrete Failure

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.

Curing Time	
Substrate temperature	Dry to touch
30°F (-1°C)	30 minutes
40°F (4°C)	30 minutes
50°F (10°C)	30 minutes
60°F (16°C)	30 minutes
70°F (21°C)	30 minutes
80°F (27°C)	30 minutes
90°F (32°C)	30 minutes

Pot life	
Mixed product temperature	Pot life
30°F (-1°C)	18-20 minutes
40°F (4°C)	18 minutes
50°F (10°C)	18 minutes
60°F (16°C)	15 minutes
70°F (21°C)	15 minutes
90°F (32°C)	8 minutes



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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

- 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

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AVAILABILITY OF PACKAGING

Packaging

- 5-gallon containers
- 55-gallon drums

