

PPG Flooring 537 Flexible Polyurethane MMA Membrane

DESCRIPTION

Fast set, high-viscosity elasticized polyurethane for use as a waterproofing membrane and designed for areas with high exposure to water

PRINCIPAL CHARACTERISTICS

- Rapid cure and return-to-service
- Resistant to water and chemicals
- Allows for curing at lower temperatures
- High wear and chemical resistance
- Wide range of service temperatures, from below freezing to above 140°F (60°C)
- Provides a continuous, seamless waterproofing membrane.
- Impact resistant
- Crack-bridging
- TYPICAL USES:
- Suitable for slip resistant coatings in wet areas
- Suitable for mechanical and thermal load

COLOR AND GLOSS LEVEL

- Clear
- Color packs are available for the following colors:
- Blue, Medium Gray, Red, and Tan
- Satin

Note:

- Do not exceed 10% volume of pigment to resin

BASIC DATA AT 70°F (21°C)

Data for mixed product	
Number of components	Two
Mass density	8.24 lb/US gal (0.988 kg/l)
Volume solids	99% ± 2%
VOC (Supplied)	EPA Method 24: 0.8 lb/US gal (93.3 g/l)
Recommended dry film thickness	40.0 - 100.0 mils (1,016 - 2,540 µm) per coat
Theoretical spreading rate	40.0 ft ² /US gal at 40.0 mils (1.0 m ² /l for 1016 µm) 16 ft ² /US gal at 100.0 mils (0.4 m ² /l for 2540 µm)
Dry to overcoat	45 minutes
Shelf life	Base: 12 months

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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
- New concrete must cure a minimum of 28 days prior to application of this product
- 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

Substrate temperature and application conditions

- Substrate temperature during application should be between 30°F (-1°C) and 90°F (32°C)
- The surface temperature must 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%

SYSTEM SPECIFICATION

- 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 60°F (15.6°C) use 2-3 fl oz (59.1-88.7 ml) of the catalyst per gallon (3.8 L) of resin
- At 50°F (10.0°C) use 3.5 – 4.5 fl oz (103 – 133 ml) of the catalyst per gallon (3.8 L) of resin
- At 40°F (4.4°C) use 4.5 – 5.5 fl oz (133 – 163 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 5.5 – 7.0 fl oz (163 – 207 ml) of the Catalyst per gallon (3.8 L) of resin

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
- For application thickness greater than 394 mills (10 mm) it is necessary to first apply a half-thickness layer. This will avoid overheating the application. After cooling, the second layer can be applied.

Note:

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

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Application

- Apply mid coat by squeegee or roller
- Ensure good ventilation during application and curing
- For recommended application instructions, see working procedure
- No thinner should be added
- Substrate must be primed first using PPG Flooring™ 920 MMA Primer or PPG Flooring™ 927 HA/MT MMA Primer. For further information on these products, please review their product data sheets

Material temperature

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

Pot life

25 minutes at 70°F (21°C)

Note:

- See ADDITIONAL DATA – Pot life

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

Curing Time	
Substrate temperature	Dry to touch
30°F (-1°C)	70 minutes
40°F (4°C)	50 minutes
50°F (10°C)	40 minutes
60°F (16°C)	30 minutes
70°F (21°C)	25 minutes
80°F (27°C)	20 minutes

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Pot life (at application viscosity)	
Mixed product temperature	Pot life
30°F (-1°C)	25 minutes
40°F (4°C)	25 minutes
50°F (10°C)	25 minutes
60°F (16°C)	25 minutes
70°F (21°C)	25 minutes
90°F (32°C)	25 minutes

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.

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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