

PPG Flooring™ 682 MMA Sealer Resin

Formerly known as AC826 Sealer Resin

DESCRIPTION

PPG Flooring 682 MMA Sealer Resin is a fast set, low-viscosity acrylic resin top coat sealer designed for areas with high exposure to water

PRINCIPAL CHARACTERISTICS

- Rapid cure and return-to-service
- Excellent adhesion to concrete
- 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)
- TYPICAL USES:
- Suitable for slip resistant coatings in wet areas
- Suitable for mechanical and thermal load

Notes:

- Coating can be exposed to hot water up to 140°F (60°C) for an extended period of time and up to 176°F (80°C) for a short period of time
- This product was previously sold as AC826 Sealer Resin
- Contact your PPG representative for specific chemical resistance information

COLOR AND GLOSS LEVEL

- Clear

BASIC DATA AT 60°F (16°C)

Data for mixed product	
Number of components	Two
Mass density	8.3 lb/US gal (1.0 kg/l)
Volume solids	90 ± 2%
VOC (Supplied)	EPA Method 24: 0.8 lb/US gal (93.3 g/l)
Recommended dry film thickness	16.0 - 20.0 mils (406 - 508 µm) per coat
Theoretical spreading rate	80 ft²/US gal for 20.0 mils (2.0 m²/l for 508 µm) 120 ft²/US gal for 16.0 mils (2.9 m²/l for 406 µm)
Dry to overcoat	45 minutes
Full cure after	See curing table



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Data for mixed product

Shelf life

Base: 12 months

Notes:

- Basic product data is based on final mixed product of 5 US gallons (19 L) PPG Flooring 682 MMA resin and 10 fl. oz. (296 mL) of PPG Flooring 6492 MMA Catalyst at 60°F (16°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
- See ADDITIONAL DATA – Spreading rate and film thickness

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 4 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 3-4 fl oz (88.7-118 ml) of the catalyst per gallon (3.8 L) of resin
- At 40°F (4.4°C) use 3-4 fl oz (88.7-118 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 4 fl oz (118 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 2 fl oz (59.1 ml) of catalyst by volume unless confirmed by PPG Tech Services.
- Yellowing of resin will occur with excessive thickness or higher amounts of hardener (at or above 4 fl oz/118 ml); use lower amounts of hardener and allow for extra cure time when using clear resin over light pigments
- PPG Flooring 6493 Cold Temperature Accelerator will cause yellowing. Use pigmented resin to reduce the appearance of yellowing



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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 1-2 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

Note: Under dosage may result in curing disturbances; over dosage may result in color alterations

Pot life

10 minutes at 70°F (21°C)

Note: See ADDITIONAL DATA – Pot life

Application

- Apply by squeegee and back roll with a medium nap roller
- Ensure good ventilation during application and curing
- For recommended application instructions, see working procedure

Material temperature

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

Cleaning solvent

Use lacquer thinner or MEK

Cleaning procedures

- All application equipment must be cleaned immediately after use

ADDITIONAL DATA

Curing Time	
Substrate temperature	Full cure
30°F (-1°C)	1 hour
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)	50 minutes
40°F (4°C)	30 minutes
50°F (10°C)	25 minutes
60°F (16°C)	20 minutes
70°F (21°C)	15 minutes
90°F (32°C)	8 minutes - 10 minutes

Physical data of cured material	
Characteristic	Value
Hardness, Shore D (ASTM D2240)	75

Note: 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.

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.

REFERENCES

• CONVERSION TABLES	INFORMATION SHEET	1410
• EXPLANATION TO PRODUCT DATA SHEETS	INFORMATION SHEET	1411
• SAFETY INDICATIONS	INFORMATION SHEET	1430
• SURFACE PREPARATION OF CONCRETE (FLOORS)	INFORMATION SHEET	1496



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WARRANTY

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