PPG Flooring™ 610 SL

DESCRIPTION

Two-component, self-priming and self-leveling epoxy coating

PRINCIPAL CHARACTERISTICS

- Self-leveling
- Low odor
- Spray, brush and roller application
- Self-priming on concrete, metal and wood surfaces
- Excellent adhesion
- Excellent resistance to acids, caustics, detergents and other corrosive materials
- High resilience to thermal shock and mechanical impact
- Can be mixed with specially graded aggregates to create a slip resistant surface texture
- Compliant with USDA Incidental Food Contact Requirements
- TYPICAL USES:
- Industrial and commercial warehouses
- Suitable for areas with light to medium impact
- Intermediate coat underneath UV-resistant polyurethane coatings for a smooth finish

COLOR AND GLOSS LEVEL

- White, Light Gray, Dark Gray, Beige, Blue, Tile Red, Safety Yellow, Black
- High gloss

BASIC DATA AT 70°F (21°C)

Data for mixed product	
Number of components	Two
Mass density	11.7 lb/US gal (1.4 kg/l)
Volume solids	100 ± 2%
VOC (Supplied)	max. 0.1 lb/US gal (approx. 10 g/l)
Recommended dry film thickness	5.0 - 30.0 mils (127 - 762 µm) per coat
Theoretical spreading rate	160 ft^2/kit over broadcast (3.9 m^2/kit)
Dry to touch	14 hours
Dry to walk on	28 hours
Overcoating Interval	Minimum: 28 hours Maximum: 36 hours
Full cure after	7 days
Shelf life	Base: 24 months when stored cool and dry Hardener: 24 months when stored cool and dry

Notes:

PPG Flooring™ 610 SL

- Recommended dry film thickness dependent on substrate and service conditions
- If overcoat time is exceeded, abrade and clean surface before recoating
- See ADDITIONAL DATA – Curing time
- Full cure after reflects maximum hardness and chemical resistance at 77°F (25°C)
- Material should be stored in dry conditions, out of direct sunlight, and in unopened original factory containers, at temperatures above 60°F (16°C) and below 80°F (27°C).
- Listed data for mixed product using standard hardener.

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
- Prepare in accordance with SSPC SP-13 guidelines

Substrate temperature and application conditions

- Ambient temperature should be at least 50°F (10°C) during application

INSTRUCTIONS FOR USE

Mixing ratio

- With standard hardener, Mixing Ratio by Volume: Part A to Part B 3:1
- With fast cure (FC) hardener, Mixing Ratio by Volume: Part A to Part B 2.85:1
- Pre-mix Part A prior to combining with Part B, using a low speed jiffy-type mixer for 1 minute
- Pour Part B into Part A container and mix 1-2 minutes with a slow speed mixer, until homogeneous
- Properly mixed material will be a uniform color without light or dark spots
- Apply immediately after mixing

Application

- Immediately after mixing, pour the mixture onto the floor in a ribbon pattern and spread with a notched rubber squeegee
- Back roll to ensure proper coverage and absorption
- Before recoating, allow the surface to cure sufficiently to support foot traffic, but before vehicle traffic
- A suitable aggregate may be broadcast into the first coat and backrolled to provide a more uniform texture
- Do not apply when temperatures are below 50°F (10°C)
- Product working time is 40 minutes at 50°F (10°C)
- Product working time is 30 minutes at 70°F (21°C)
- Product working time is 20 minutes at 90°F (32°C)

PPG Flooring™ 610 SL

Pot life

40 minutes at 70°F (21°C)

Notes:

- The pot life will vary substantially with temperature
- See ADDITIONAL DATA – Pot life

Cleaning procedure

- All application equipment must be cleaned immediately after use

ADDITIONAL DATA

Recoat window for standard cure hardener

- Between 8 and 14 hours at 90°F (32°C)
- Between 28 and 36 hours at 70°F (21°C)
- Between 60 and 70 hours at 50°F (10°C)

Recoat window for fast cure (fc) hardener

- Between 8 and 14 hours at 90°F (32°C)
- Between 40 and 54 hours at 50°F (10°C)
- Between 14 and 20 hours at 70°F (21°C)

Working time for product with fast cure (FC) hardener

- Working time is 8 minutes at 70°F (21°C)
- Working time is 15 minutes at 50°F (10°C)
- Working time is 4 minutes at 90°F (32°C)

Physical data of cured material	
Characteristic	**Value**
Tensile Strength (ASTM D638)	2,705 psi (19 MPa)
Tensile Elongation (ASTM D638)	11%
Bond Strength (ASTM C482)	To concrete failure
Hardness, Shore D (ASTM D2240)	86
Taber Abrasion (ASTM D1044, CS-17 Wheel, 1 kg load, 1000 cycles)	106 mg loss

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.

PPG Flooring™ 610 SL

Curing time with standard hardener			
Substrate temperature	**Resistant to vehicular service**	**Dry to walk on**	**Dry to touch**
50°F (10°C)	70 hours	60 hours	24 hours
70°F (21°C)	36 hours	28 hours	14 hours
90°F (32°C)	14 hours	8 hours	5 hours

Curing time with fast cure (FC) hardener			
Substrate temperature	**Resistant to vehicular service**	**Dry to walk on**	**Dry to touch**
50°F (10°C)	54 hours	40 hours	20 hours
70°F (21°C)	20 hours	14 hours	6 hours
90°F (32°C)	14 hours	8 hours	3 hours

Pot life for product with standard hardener	
Mixed product temperature	**Pot life**
50°F (10°C)	50 minutes
70°F (21°C)	40 minutes
90°F (32°C)	25 minutes

Note:

- Higher temperatures and relative humidity will shorten pot life and working time

Pot life for product with fast cure (FC) hardener	
Mixed product temperature	**Pot life**
50°F (10°C)	20 minutes
70°F (21°C)	12 minutes
90°F (32°C)	8 minutes

Note:

- Higher temperatures and relative humidity will shorten pot life and working time

Product Qualifications

- Compliant with USDA Incidental Food Contact Requirements

PPG Flooring™ 610 SL

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

SAFETY PRECAUTIONS

- Care should be taken to prevent eye and skin contact
- 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.

REFERENCES

- Information sheet | Explanation of product data sheets

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.