

PPG Flooring™ 2645

DESCRIPTION

Two-Component, Breathable Waterborne Epoxy Coating

PRINCIPAL CHARACTERISTICS

- Waterborne epoxy
- Excellent abrasion and impact resistance
- Excellent chemical resistance
- Fast return to service
- Low odor
- Breathable - resistant to disbondment from moisture vapor transmission
- Self-priming floor toppings and coatings
- TYPICAL USES:
 - Data Centers
 - Industrial and commercial warehouses
 - Stadiums and convention centers
 - Schools
 - Hospitals
 - Airplane hangars
 - Suitable for porous concrete surfaces

COLOR AND GLOSS LEVEL

- Light Gray, Dark Gray, Bright White, Clear
- Gloss

BASIC DATA AT 24°C (75°F)

Data for mixed product	
Number of components	Two
Mass density	1.2 kg/l (9.9 lb/US gal)
Volume solids	48 ± 2%
VOC (Supplied)	max. 0.4 lb/US gal (approx. 50 g/l)
Recommended dry film thickness	3.0 - 6.0 mils (75 - 150 µm) depending on system
Theoretical spreading rate	534 ft²/US gal for 3.0 mils (13.1 m²/l for 75 µm) 267 ft²/US gal for 6.0 mils (6.55 m²/l for 150 µm)
Dry to touch	3 hours
Dry to walk on	10 hours
Overcoating Interval	Minimum: 4 hours Maximum: 24 hours
Full cure after	21 days
Shelf life	Base: at least 24 months when stored cool and dry



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Data for mixed product

	Hardener: at least 24 months when stored cool and dry
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Notes:

- 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 90°F (32°C)
- Exceeding recommended dry film thickness of clear coat may induce slight yellowing of the dried film after curing
- Full chemical and hardness development is typically achieved within 21 days of application; however, you may follow walk on and light traffic times as appropriate
- Do not allow product to freeze

RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

Concrete

- Surface must be clean, uniform, sound, and free from contamination (such as oil, grease, rust, scale, or deposits)
- Prepare the surface in accordance with SSPC SP-13 standards
- Concrete pH must be between 7.0 and 14.0
- New concrete must cure a minimum of 28 days prior to application of this product
- Surface condition should be Saturated Surface Dry (SSD) or dryer
- Surface profile shall be CSP 2-3 or greater, meeting ICRI standard guideline #03732 for coating concrete, producing a profile equal to 80-grit sandpaper or coarser. Prepare surface by mechanical means to achieve this desired profile.

Substrate temperature and application conditions

- Substrate temperature during application should be between 65°F (18°C) and 90°F (32°C)

Other Substrates

- Check with PPG PMC Technical Service for preparation instructions for substrates other than concrete.

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SYSTEM SPECIFICATION

Chemical resistance (splash/spill)

- 20% ammonium hydroxide
- Ethylene Glycol
- Gasoline
- 98% Isopropyl Alcohol
- Mineral Spirits
- Skydrol Hydraulic Fluid

Notes:

- A more complete list of chemical resistances is available by request from PPG PMC Technical Services
- To maximize service life, chemical splash and spills should be cleaned promptly

INSTRUCTIONS FOR USE

Mixing ratio by volume: base to hardener 2:1

- Pre-mix each component with a power mixer at moderate speeds to homogenize the container
- Combine Part A and Part B components and agitate with a power mixer for 5 minutes until completely mixed
- Scrape sides and bottom occasionally to ensure all contents are incorporated. Mix only full kits

Application

- Apply and back roll using a 3/8 in (9.5 mm) nap roller
- May also be applied via brush or squeegee
- If a slip resistant finish is required, lightly and evenly broadcast aggregate into first coat after back rolling but before product begins to set

Notes:

- Do not install on wet (standing water) floors or in areas receiving direct sunlight or where floor will be affected by drafts during curing
- Contact Technical Services to discuss application options
- Consult application guide for additional information

Cleaning procedure

- All application equipment must be cleaned immediately after use
 - Clean hands and other surfaces with warm, soapy water before material begins to harden.
 - Fully cured material can only be removed from equipment or surfaces with industrial paint strippers or thorough mechanical methods such as grinding or sanding.
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ADDITIONAL DATA

Physical data of cured material	
Characteristic	Value
Taber Abrasion (ASTM D1044, CS-17 Wheel, 1 kg load, 1000 cycles)	< 150 mg
Adhesion to Concrete (ASTM D7234)	>400 psi (>2.76 MPa)*
Hardness, ASTM D4366, 3°König	34 (24 hrs), 100 (7 day)
Moisture Vapor Transmission (ASTM D1653)	10.5 g/(m ² /24 hours)*

Notes:

- 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.
- * note: adhesion testing led to substrate failure before coating bond loss

Curing Time		
Substrate temperature	Open to Foot Traffic	Resistant to vehicular service
70°F (21°C)	10 hours	24 - 36 hours

Curing time for DFT up to 10.0 mils (250 µm)			
Substrate temperature	Dry to touch	Dry hard	Dry to handle
50°F (10°C)	5.5 hour	7.5 hour	23.5 hour
70°F (21°C)	3.0 hour	4.5 hour	10.5 hour
90°F (32°C)	2.0 hour	2.5 hour	6.5 hour

Pot life	
Mixed product temperature	Pot life
50°F (10°C)	2 hours
70°F (21°C)	1 hour
90°F (32°C)	30 minutes

Note:

- At 50% relative humidity

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DISCLAIMER

- 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

- 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

- 3 Gallon Kits