

PPG Flooring 2445

Formerly known as PM 450 Breathable Floor

DESCRIPTION

Two component, ultra low VOC, water-based epoxy primer

PRINCIPAL CHARACTERISTICS

- Breathable - resistant to disbondment from moisture vapor transmission
- Low odor
- Excellent adhesion to concrete
- Bonds to dry and damp concrete
- Easy application by brush/roller and (airless) spray
- Rapid cure and fast overcoating
- Good abrasion and impact resistance
- Good chemical resistance
- TYPICAL USES:
- Fast curing primer under epoxy, acrylic, urethane, polyurethane, and polyurea systems

COLOR AND GLOSS LEVEL

- Clear

BASIC DATA AT 75°F (24°C)

Data for mixed product	
Number of components	Two
Volume solids	52 ± 3%
VOC (Supplied)	EPA Method 24: 0.0 lb/US gal (0.0 g/l)
Recommended dry film thickness	3.0 - 4.0 mils (75 - 100 µm) depending on system
Theoretical spreading rate	200 ft ² /US gal for 4.0 mils (4.9 m ² /l for 102 µm)
Dry to walk on	6 hours
Overcoating Interval	Minimum: 30 minutes Maximum: 90 minutes
Full cure after	48 hours
Shelf life	Part A: at least 12 months when stored cool and dry Part B: at least 12 months when stored cool and dry

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)
- Do not allow product to freeze

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RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

- All surfaces must be sound, clean, free of oil, grease, dirt, mildew, curing compounds, loose and flaking paint, and other foreign substances
- Coating performance is proportional to the degree of surface preparation
- Ambient temperature during application and curing should be between 65°F (18°C) and 90°F (32°C)
- Maximum 80% relative humidity during application and curing
- Moisture vapor transmission should not exceed 4 lb/1000 ft² (19.5 g/m²) over 24 hours

Concrete

- Surface texture of 100 grit sandpaper is desired for maximum adhesion
- Substrate should be dry, no standing water or water infiltration
- Moisture vapor transmission should not exceed 4 lb/1000 ft² (19.5 g/m²) over 24 hours

SYSTEM SPECIFICATION

- Avoid applications where ambient operating temperatures exceed 140°F (60°C)

INSTRUCTIONS FOR USE

- Apply by airless spray, brush or roller application
- Using either a flat or notched rubber squeegee, spread the mixed material to a uniform thickness.
- ROLLERS: 3/8 inch lint-free roller with phenolic core for back-rolling.

Mixing ratio by volume: base to hardener 2:1

- Product components are pre-packaged in proper ratio
- Combine Part A and Part B and thoroughly mix the two components of the kit together
- Prior to mixing, the temperature of Part A and Part B should each be at least 70°F (21°C)

Application

- Two coats are recommended for uniform pigmented finish

Note:

- Do not install on wet (standing water) floors or in areas receiving direct sunlight or where floor will be affected by drafts during curing

Material temperature

- Material temperature during application should be between 70°F (21°C) and 90°F (32°C)
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Pot life

3 hours at 75°F (24°C)

Airless spray

- Material and equipment temperatures must be kept at 70°F (21°C) or above
- Apply at approximately 200-250 ft²/gal (4.9-6.1 m²/l), depending on surface porosity
- Use a 0.015-0.017" spray tip

Recommended thinner

Do not thin

ADDITIONAL DATA

Physical data of cured material	
Characteristic	Value
Bond strength (ASTM D4541)	>300 psi (>2068 kPa)
Hardness, Shore D (ASTM D2240)	76
Indentation (MIL-D-3134F)	No Chipping or Cracking
Tensile Elongation (ASTM D638)	4.3%

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.

DISCLAIMER

- For industrial or professional use only

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.

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AVAILABILITY OF PACKAGING

Packaging

- 3-gallon kit: 2-gallons of base and 1-gallon of hardener

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