

PPG RAVEN® 175 Primer

DESCRIPTION

Two-component, low odor, penetrating primer sealer for concrete

PRINCIPAL CHARACTERISTICS

- Ultra High Solids
- Low odor
- Seals concrete surfaces, helping to minimize outgassing and moisture vapor transmission
- Suitable for use in confined spaces and underground concrete applications
- Bonds to dry and damp concrete

Note: Information Sheet available with test and certification data

COLOR AND GLOSS LEVEL

- Part A is Clear, Part B is Amber; Mixed product is Milky
- Product dries to a transparent film

BASIC DATA AT 72°F (22°C)

Data for mixed product	
Number of components	Two
Mass density	9.0 lb/US gal (1.1 kg/l)
Volume solids	98 ± 2%
VOC (Supplied)	EPA Method 24: 0.2 lb/US gal (24.7 g/l)
Recommended dry film thickness	4.0 mils (102 µm) per coat
Theoretical spreading rate	100 ft ² /US gal for 4.0 mils (2.5 m ² /l for 101 µm)
Dry to touch	8 hours
Overcoating Interval	Minimum: 8 hours Maximum: 7 days

Notes:

- Listed solids volume is for the product as supplied by manufacturer.
- Dry film thickness and theoretical spreading rate are based on application at 50% solids
- The spreading rate is dependent on the absorption capability coming from the roughness and porosity of the concrete
- Spreading rate is based on wet film thickness (WFT) of 8 mils (200 µm)
- If overcoat time is exceeded, abrade and clean surface before recoating
- The shelf life for the unmixed components (Part A and Part B) for this product is 12 months at 70°F (21°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).

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RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

Concrete / Masonry

- Surface must be clean, uniform, sound, and free from contamination (such as oil, grease, rust, scale, or deposits)
 - Abrade surface to achieve a surface profile equivalent to CSP 3 to CSP 5 in accordance with ICRI 310.2R-2013
 - Prepare in accordance with SSPC SP-13 guidelines
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Substrate temperature and application conditions

- Substrate temperature during application should be between 32°F (0°C) and 140°F (60°C)
- Substrate temperature during application should be at least 5°F (3°C) above the dew point
- Ambient temperature during application should be between 32°F (0°C) and 140°F (60°C)
- Relative humidity during application should not exceed 85%

Note: For best results in limiting outgassing, apply to prepared concrete when the substrate temperature is stable or falling

SYSTEM SPECIFICATION

- Maximum of 8 mils (200 µm) WFT per coat at 50% solids, yielding 4 mils (100 µm) DFT per coat
 - One to two coats recommended
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INSTRUCTIONS FOR USE

- Apply by airless spray, brush or roller application
 - Material temperature should be at least 60°F (16°C) for optimal performance
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Mixing ratio by volume: Part A to Part B 60:40 (3:2)

- Mix only a quantity of material that can be applied within 60 minutes by the number of persons applying the material. This is typically 2 US gallons (7.5 liters) per person, maximum
 - Product is sold in pre-measured containers at the required ratio
 - Pre-mix Part A component prior to pouring into a clean, disposable pail
 - Then add Part B to Part A
 - Completely mix combined components for a minimum of one minute
 - Dilute by adding acetone while mixing for another minute
 - Mix with a jiffy-type mixer for one minute or until homogenous
 - Scrape sides and bottom to obtain a thorough mix before application
 - Mix at slower speeds to avoid whipping air into the paint
 - Properly mixed material will be a uniform color without light or dark spots
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Pot life

52 minutes at 72°F (22°C)

Notes:

- Listed pot life is for undiluted product
- Pot life is 120 minutes when reduced with acetone

Airless spray

- Pressure pot equipped with dual regulators
- Use 3/8" I.D. minimum material hose
- Use 0.070" I.D. fluid tip and appropriate air cap
- Recommended tip size: 515-525
- Filter size: 60 Mesh
- Back roll with a saturated roller to work into block porosity
- Use 45:1 pump ratio for elevated applications and 1/2" I.D. hose for lengths greater than 60 ft (18 m) in length
- Teflon packings are recommended inside the pump

Recommended thinner

Acetone

Nozzle pressure

1000 - 2000 p.s.i. (approx. 69 - 138 bar; 6.9 - 13.8 MPa)

Brush/roller

- Use a medium bristle brush or a short-nap synthetic roller cover with a phenolic core
- Avoid excessive re-brushing or over-rolling

Recommended thinner

Acetone

ADDITIONAL DATA

Physical data of cured material	
Characteristic	Value
Adhesion to Concrete (ASTM D7234)	To substrate failure

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.

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DISCLAIMER

- PPG Protective & Marine Coatings does not accept any responsibility or liability for any odor, taste or contamination imparted to the drinking water from the coatings or products retained in the coating
- 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

WARRANTY

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