

PPG RAVEN® 175

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

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 20°C (68°F)

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)
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.
- If overcoat time is exceeded, abrade and clean surface before recoating
- The shelf life for each of 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).

RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

Concrete / Masonry

- Surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, dirt, loose rust, and other foreign material to ensure adequate adhesion.
- 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

INSTRUCTIONS FOR USE

- Apply by airless spray, brush or roller application
- Material temperature should be at least 60°F (16°C) for optimal performance

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

Application

- Recommend that the mixed product be thinned by mixing in a 1:1 ratio with acetone. This will yield a 50% solids mixture
- Maximum of 8 mils (200 µm) WFT per coat at 50% solids
- At 50% solids, two coats are recommended, with the second coat applied 15-30 minutes after the first
- At 50% solids, theoretical coverage rate is 200 ft²/US gal (4.9 m²/l) at 8.0 mils (200 µm) WFT per coat

Note:

- A rough floor will reduce the spread rate of the first coat.



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Pot life

52 minutes at 72°F (22°C)

Notes:

- Pot life is 120 minutes when reduced with acetone
 - Listed pot life is for undiluted product
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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
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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.
 - For industrial or professional use only
 - 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
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SAFETY PRECAUTIONS

- Read all label and Safety Data Sheet (SDS) information prior to use
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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

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