

PPG RAVEN® 150 Primer

DESCRIPTION

Two-component, 100% solids, epoxy adhesive bonding intermediate for thermoplastics

PRINCIPAL CHARACTERISTICS

- Used to create a sealed interface between PVC and other thermoplastic materials
- TYPICAL USES:
- Formulated for interfacing low-surface-energy thermoplastic materials such as pipe, pipe liners, sheet liners etc. with Raven epoxy coatings

Note: Information Sheet available with test and certification data

COLOR AND GLOSS LEVEL

- Part A is White, Part B is Black; Mixed product is Light Gray
- Semi-gloss

BASIC DATA AT 72°F (22°C)

Data for mixed product	
Number of components	Two
Mass density	10.1 lb/US gal (1.2 kg/l)
Volume solids	100 ± 2%
VOC (Supplied)	max. 0.0 lb/US gal (approx. 3 g/l)
Theoretical spreading rate	27 ft ² /US gal for 60.0 mils (0.7 m ² /l for 1524 µm) 1600 ft ² /US gal for 1.0 mils (39.4 m ² /l for 25 µm)
Dry to touch	5 hours
Overcoating Interval	Maximum: 7 hours
Curing time	7 hours

Notes:

- If overcoat time is exceeded, abrade and clean surface before recoating
- Drying times listed may vary depending on temperature, humidity and air movement
- Primer can be top coated immediately after application, while it is still tacky
- Curing time reflects ready for service time
- 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).

PPG RAVEN® 150 Primer

RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

Thermoplastics

- Solvent clean per SSPC SP-1 to remove grease and oils
- Remove bond inhibiting materials from the surface of the plastic, such as mold release compounds, processing aids, or other nonpolar contaminants
- Abrasive blasting, power tools, or hand tools may be used

Substrate temperature and application conditions

- Substrate temperature during application should be between 40°F (4°C) and 120°F (49°C)

INSTRUCTIONS FOR USE

Mixing ratio by volume: Part A to Part B 50:50 (1:1)

- Pre-mix each component with a power mixer at moderate speeds to homogenize the container
- Measure out equal volumes of both components into a clean disposable pail
- Combine Part A and Part B components and agitate with a power mixer for 2 minutes until completely mixed
- Scrape sides and bottom to obtain a thorough mix before application
- Properly mixed material will be a uniform color without light or dark spots

Note: If lower viscosity is needed, heat unmix material by placing the containers in hot tap water until the desired flow properties are obtained

Pot life

45 minutes at 72°F (22°C)

Note: Longer pot life is possible by mixing smaller amounts and cooling down the components before mixing

Application

- Apply with brush, squeegee, trowel or hand application
- Please consult PPG Protective & Marine Coatings for details of the application procedure, which has been prepared to the best of our knowledge and in accordance with worldwide application best practices in order to ensure optimal workmanship and application results

Recommended thinner

No thinner should be added

Cleaning solvent

MEK, acetone or xylene

Note: For Part A and Part B



PPG RAVEN® 150 Primer

Cleaning solvent

- Soap and water

Note: For cleaning tools

ADDITIONAL DATA

Physical data of cured material	
Characteristic	Value
Tensile Strength (ASTM D638)	4,000 psi (28 MPa)
Tensile Elongation (ASTM D638)	3.7%
Hardness, Shore D (ASTM D2240)	80
Compressive Strength (ASTM D695)	6,600 psi (46 MPa)
Taber Abrasion (ASTM D4060, CS-17 Wheel, 1 kg load, 1,000 cycles)	<150 mg
Adhesion to Steel (ASTM D4541)	>1,500 psi (>10 MPa)

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.

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.

PPG RAVEN® 150 Primer

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.

The PPG logo, and all other PPG marks are property of the PPG group of companies. All other third-party marks are property of their respective owners.

