

PPG BRIDGE DECK CONCRETE PRIMER

also sold as Bridge Preservation® Concrete Primer

DESCRIPTION

Rapid setting, two-component, penetrating polymer primer for concrete and other porous masonry substrates.

PRINCIPAL CHARACTERISTICS

- Low viscosity for excellent penetration and absorption
- Rapid cure and fast overcoating
- Can be applied and cures at temperatures down to -20°F (-29°C).
- Penetrates concrete for permanent bond.
- Seals concrete surfaces, helping to eliminate outgassing
- TYPICAL USES:
 - Interior/Exterior concrete and other porous masonry.
 - For use with all PPG BRIDGE DECK rapid curing sealants and spray coating systems.
 - Waterproofing and sealing bridges, railways, tunnels, parking decks, and other concrete surfaces

COLOR AND GLOSS LEVEL

- Amber to white

BASIC DATA AT 77°F (25°C)

Data for mixed product	
Number of components	Two
Mass density	8.8 lb/US gal (1.1 kg/l)
Volume solids	61 ± 2%
VOC (Supplied)	EPA Method 24: 3.24 lb/US gal (388 g/l)
Theoretical spreading rate	130-200 ft ² /US gal (3.19-4.91 m ² /l) depending on porosity of substrate
Dry to touch	15 minutes
Dry to overcoat	30 minutes
Dry to walk on	30 minutes
Overcoating Interval	Minimum: 30 minutes Maximum: 16 hours
Curing time	30 minutes
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 55°F (13°C) and below 95°F (35°C).
- Cure times will be longer at lower temperatures

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RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

Concrete

- Surface must be sound and free from contamination (such as oil, grease, rust staining, scale, or deposits).
- Repair spalls and other defects with approved patching material.
- Prepare surface as per SSPC-SP13 guidelines
- Prepare concrete substrate to have a surface profile minimum of CSP 3 as per the ICRI standard.
- For concrete surfaces at or below 32°F (0°C), additional preparation and/or testing may be required to ensure proper adhesion. Contact PPG for further information.
- Prime cracked areas greater than 1/16" (1588 µm) with neat PPG BRIDGE DECK CONCRETE PRIMER material prior to repair
- Expansion joints, control joints, and moving cracks should be filled with appropriate PPG JOINT FILL sealants or fillers then isolated with bond breaker

Substrate temperature and application conditions

- Substrate temperature during application and curing should be above -20°F (-29°C)
- For dew point and surface temperature ranges, please refer to manufacturer installation procedures
- Moisture content should not exceed 5%

SYSTEM SPECIFICATION

- Allow primer to become tack free prior to installing repair.
- Avoid applying material in thickness greater than 20 mils (508 µm).

INSTRUCTIONS FOR USE

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

- Prior to mixing, the temperature of Part A and Part B should each be at least 50°F (10°C)
- Pre-mix Part B prior to combining with Part A
- When mixing by hand, mix material in small quantities and install immediately
- Prime cracked areas greater than 1/16" (1588 µm) with neat PPG BRIDGE DECK CONCRETE PRIMER material prior to repair
- Expansion joints, control joints, and moving cracks should be filled with appropriate PPG JOINT FILL sealants or fillers than isolated with bond breaker

Application

- Apply by spray, brush, roller or squeegee
- Install at a rate of 130 – 200 ft²/gal (3.2 – 4.9 m²/l) depending on porosity and surface texture of substrate
- Avoid applying material in thickness greater than 20 mils (510 µm). Contact PPG for further information
- Product shall have 100% coverage to the concrete substrate. If any voids are visible, additional priming may be required.

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Airless spray – Plural component

- 1:1 Plural component pump
- Use static mix spray gun or impingement spray gun with static mix
- Process below 1,000 psi (6.9 MPa) to avoid excess atomization of materials.

Recommended thinner

Do not thin

Brush/roller

- Mix in small quantities and apply immediately.
- Measure and mix only enough material to ensure placement of mixed material within 2 minutes.
- Mix with mechanical mixer for 30 seconds to ensure complete mix of A and B components.
- Apply mixed material with squeegee, brush or roller

Recommended thinner

Do not thin

Notes:

- Pouring the batch out onto the substrate will extend the working time and improve penetration into porous substrates
- Detailed work should be done with roller or brush

ADDITIONAL DATA

Physical data of cured material	
Characteristic	Value
Tensile Strength (ASTM D638)	>3,300 psi (>23 MPa)
Tensile Elongation (ASTM D638)	>4%
Tear Strength (Die C, ASTM D624)	>180 pli
Hardness, Shore D (ASTM D2240)	>60
Taber Abrasion (ASTM D4060, H-18 wheel, 1 kg load, 1,000 cycles)	<1,000 mg loss
Adhesion to Concrete (ASTM D7234)	>150 psi (>1.03 MPa)

Notes:

- The value ranges stated in this Product Data Sheet are based on system processing under laboratory conditions. These are typical values and should not be considered product specifications for a specific field application. Equipment configurations and/or field application conditions may produce variances in final system values.
- Concrete bond strength is highly dependent on the age and condition of the concrete substrate. Actual field conditions of concrete substrate may result in lower values. Refer to contract document requirements and/or PPG's published documentation for additional information.

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DISCLAIMER

- 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 PPG representative 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 & 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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AVAILABILITY OF PACKAGING

Packaging

- 2-gallon kits
- 10-gallon kits
- 110-gallon kits (two 55-gallon drums filled by weight, volume is closely approximated)

