DESCRIPTION

Single component, high-early strength fiber-reinforced underlayment/repair material

PRINCIPAL CHARACTERISTICS

- Proprietary Portland Cement formulation
- · Can be spray or trowel applied
- Stand-alone product or polymer top-coated after 24 hour cure
- · Resists acids and caustics
- TYPICAL USES:
- Surfaces where rehabilitation of an existing structure requires enhancement of the structural integrity and stability

COLOR AND GLOSS LEVEL

- Concrete gray
- Matte

BASIC DATA AT 20°C (68°F)

Data for product	
Number of components	One
Mass density	17.6 lb/US gal (2.1 kg/l)
Volume solids	100%
VOC (Supplied)	EPA Method 24: 0.0 lb/US gal (0.1 g/l)
Dry to touch	8 hours
Curing time	24 hours
Shelf life	Powder: at least 12 months when stored cool and dry

Notes:

- Curing time reflects ready for service time
- Material should be stored in dry conditions, out of direct sunlight, and in unopened original factory containers, at temperatures above 40°F (4°C) and below 110°F (43°C)
- See ADDITIONAL DATA Spreading rate and film thickness

RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

- Surfaces must be damp but free of excess or flowing water before application
- A Saturated Surface Dry (SSD) condition is recommended
- Loose or protruding brick, mortar and concrete shall be removed using a Mason's hammer, chisel or scraper

Ref. P820 Page 1/4



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

Substrate temperature and application conditions

- Substrate temperature during application should be between 35°F (2°C) and 90°F (32°C)
- Ambient temperature during application and curing should be between 35°F (2°C) and 90°F (32°C)

Notes:

- For best results in limiting outgassing, apply to prepared concrete when the substrate temperature is stable or falling
- Temperature of water for mixing shall not exceed 80°F (27°C); chill with ice if necessary

SYSTEM SPECIFICATION

- Minimum application thickness is 0.5 in (1.3 cm) per lift
- Maximum application thickness is 2 in (5.1 cm) per lift
- · Additional thickness may be achieved by applying successive lifts
- Theoretical coverage is 13.7 ft² (1.3 m²) per 60 lb (27 kg) bag at 0.5 in (1.3 cm) thickness
- Theoretical coverage is 3.4 ft² (0.3 m²) per 60 lb (27 kg) bag at 2 in (5.1 cm) thickness

INSTRUCTIONS FOR USE

- If time between applications of additional product is to be longer than 15 minutes, place a cover over structure to restrict air movement
- At no time should the finished product be exposed to sunlight or air movement for longer than 15 minutes
- In extremely hot and arid climates, surfaces shall be shaded while application is in process
- In environments where the humidity level is below 70%, the applied product shall be kept damp or coated with PPG RAVEN® 155 primer, PPG RAVEN® 171FS primer, or PPG RAVEN® 175 primer to prevent moisture loss

Preparation

- Mix 60 lb (27 kg) bag of dry cement powder with 1.2 1.5 US gallon (5.5 6.9 liters) of clean potable water
- Follow mixing procedure on product label

Ref. P820 Page 2/4



Application

- Optimal mixing and application can be achieved with the use of an approved low-velocity, cementitious spray system
- · Can be applied by trowel
- · Only potable water may be added

Note:

- Contact Technical Services to discuss application options

Pot life

30 minutes at 72°F (22°C)

ADDITIONAL DATA

Physical data of cured material		
Characteristic	Value	
Tensile Strength (ASTM C496)	>800 psi (>5.5 MPa)	
Flexural Strength (ASTM C293)	>1,500 psi (>10.3 MPa)	
Compressive Strength (ASTM C109, 28 days)	>9,000 psi (>62.0 MPa)	
Shrinkage (ASTM C596, @ 90% relative humidity)	0%	
Freeze/Thaw (ASTM C666, 100 cycles)	No visible damage	
Bond Strength (ASTM C882)	>2,000 psi (>13.8 MPa)	

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

- 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
- 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 safeguarded.
- · For industrial or professional use only

SAFETY PRECAUTIONS

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

Ref. P820 Page 3/4



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

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.

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Ref. P820 Page 4/4