

FRP 200 Sealer

High-Strength Concrete Sealer

Description

Advanced FRP Systems' **FRP 200 Sealer** was engineered to provide a strong bond to concrete by penetrating into the pores and reinforcing the concrete substrate. This system was designed to strengthen concrete, increase the adhesion of subsequent coatings, and reduce pinholes on subsequent coatings caused by outgassing from the concrete. It also serves as a holding primer for steel substrates to prevent flash rust/rust bloom prior to coating.

Product Advantages

- Zero VOC system
- Outstanding adhesion to concrete, steel, masonry, wood and composites
- Low Viscosity to quickly penetrate concrete
- Long overcoat window
- Ships DOT Non-Corrosive
- Moisture Tolerant epoxy
- Cures at temperatures as low as 40 °F
- Ambient cure, high strength formulation

Suggested Application

This epoxy sealer can be used to penetrate and seal concrete substrates prior to coating to increase the overall adhesion and to reduce outgassing from the concrete. **FRP 200 Sealer** also serves as an excellent hold primer to ensure that blasted steel does not flash rust prior to coating application.

Performance Data

	Test Method	Results
Flexural Strength	ASTM D790	18,200 psi
Flexural Modulus	ASTM D790	447 ksi
Tensile Strength	ASTM D638	11,000 psi
Tensile Modulus	ASTM D638	491 ksi
Compressive Strength	ASTM D695	15,600 psi
Adhesion to Concrete	ASTM D4541	>750 psi
Adhesion to Steel	ASTM D4541	3000 psi
Heat Distortion Temperature	ASTM D648	201 °F
Maximum Operating Temp.		175 °F

Product Characteristics

Finish: High Gloss

Color: Clear

Volume Solids: 100%

Mix Ratio (by wt.): 2.3:1

Mix Ratio (by vol.): 2.1:1

Density: 1.13 g/mL

Approx. Coverage: 320 sqft/gallon at 5 mils

Maximum Film Build: 10 mils

Working Time: 60 minutes at 75 °F

Application Temperatures: 40 - 105 °F

FRP 200 Sealer is sold in ½, 1, 2, and 4 gallon units. Other unit sizes may be available.

Sold FOB Weymouth, MA

Cure Schedule

Cures for Application	50 °F (10 °C)	75 °F (24 °C)	100 °F (38 °C)
Dry to Touch	14 hours	8 hours	4 hours
Dry Hard	36 hours	24 hours	12 hours
Overcoat Window	14 - 168 hours	8 - 120 hours	4 - 72 hours
Cures for Service	50 °F (10 °C)	75 °F (24 °C)	100 °F (38 °C)
Handling	36 hours	24 hours	12 hours
Return to Service	48 hours	36 hours	24 hours
Full Mechanical Strength	168 hours	120 hours	72 hours

Contact Advanced FRP Systems for elevated temperature post-cure information. Elevated temperature cures will increase chemical resistance and reduce return to service time.

Application Information

All Advanced FRP Systems products should be installed by a certified applicator or with direct oversight by Advanced FRP Systems, Inc. This data sheet provides general application guidelines for FRP 200 Sealer.

Contact Advanced FRP Systems for more information if your project has detailed coating specifications.

Ensure proper surface preparation has been performed according to the Surface Preparation Guidelines below. Air and substrate temperatures must be between 40 - 105 °F and relative humidity must be below 95%.

Pour all of Part A – Hardener into Part B – Base and mix with low speed power agitator for 2-3 minutes. Using a paint stick or spatula, thoroughly scrape sides and bottom of unit. Mix with power mixer for an additional 2 minutes. Do not dilute Advanced FRP products.

FRP Sealer 200 can be applied via brush, roller, plural component airless spray or single component airless spray equipment. **FRP 200 Sealer** should be applied to concrete at 3-5 mils, or just enough that the material wets out the substrate without pooling or running down walls. **FRP 200 Sealer** will only hang at 5 – 10 mils maximum for vertical and overhead applications.

Contact Advanced FRP Systems for recommendations on spraying equipment for **FRP 200 Sealer**.

Surface Preparation

Steel (Immersion Service): Remove all oil and grease from surface with an SSPC-SP 1 Solvent Wipe prior to blasting. Abrasive Blast to an SSPC-SP 10 Near white metal blast with a sharp angular profile of 2 – 3 mils (50 – 75 microns).

Steel (Atmospheric Corrosion): Remove all oil and grease from surface with an SSPC-SP 1 Solvent Wipe. Minimum surface preparation of SSPC-SP 2 Hand Tool Cleaning must be performed. For enhanced performance, an SSPC-SP 6 Commercial Blast Cleaning with an angular surface profile of 1.5+ mils should be used.

Concrete (Immersion/Secondary Containment): Refer to SSPC-SP 13/NACE No. 6, Section 4.3.1 or ICRI No. 310.2, CSP 1-3 for concrete preparation guidelines. Surface should be thoroughly cleaned and dry. Concrete and mortar must be cured at least 28 days @ 75 °F. Surface must be free of laitance, concrete dust, dirt, form release, curing aids and other foreign material.

Concrete (Atmospheric Corrosion): Refer to SSPC-SP 13/NACE No. 6, Section 4.3.1 or ICRI No. 310.2, CSP 1-3 for concrete preparation guidelines.

Previously Coated Surfaces: Consult with Advanced FRP to ensure previous coating is compatible. If compatible and previous coating is in good condition, remove all loose coating and foreign materials. Brush blast or grind all glossy areas to a uniform dull finish. Remove dust, oil and debris with SSPC-SP 1 Solvent Wipe prior to coating.

Storage and Shelf Life

FRP 200 Sealer must be stored between 45 – 110 °F, out of direct sunlight. If stored in these conditions, the product will have a 24-month shelf life.

Safety Precautions

Please consult up-to-date Safety Data Sheets (SDS's) prior to use. An SDS should be available on site whenever Advanced FRP products are being used.

Warranty Information

Advanced FRP Systems, Inc. warrants that our products are free of manufacturing defects in accordance with applicable Advanced FRP quality control parameters. Liability for products proven defective, if any, is limited to replacement of defective product or refund of purchase price as determined by Advanced FRP Systems. Additional warranties and protection are available. Contact Advanced FRP for more information.

Disclaimer

The information and recommendations set forth upon this data sheet are based on years of laboratory and field analysis. This information is intended to be used as guidance only as many factors affect the performance of polymeric systems. Actual exposure conditions are the best test of suitability and Advanced FRP Systems will generally provide complimentary samples for field testing.

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