

Corro-Coat FC 2100 N Epoxy TECHNICAL DATA

SOLVENT-FREE EPOXY COATING

Protective Coating Top Coat Corrosion Protection Apply/Cures Underwater	Solvent-Free High Build Non-Sag Formulation Novolac Improved Chemical Resistance Easy 2:1 Mixing Ratio Feldspar Ceramic and Kevlar™ Reinforced
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STANDARD PRODUCT DESCRIPTION	Corro Coat FC 2100 N is a 100% solids, next generation, novolac epoxy coating featuring 25% tensile elongation, superior chemical and abrasion resistance, one coat, no sag, high build tile like glaze finish that will withstand severe abuse. Bonds to concrete (wet and dry), steel and wood surfaces.
USES	Most corrosive environments Marine, chemical, pulp and paper Spillways, piping, pilings, columns Excellent as a finish top coat
FEATURES	Solvent-Free Resistant to most corrosive chemicals High Gloss Convenient 2 to 1 ratio by volume (1:0.37 by weight) Non-blushing and non-water spotting Non-corrosive and Non-hazmat Kevlar™ microfibers reinforce against hairline cracking and chipping Feldspar (ceramic plates/needles) provides extreme abrasive resistance Apply by brush, roller (at the upper limits of roller application) or spreader
PHYSICAL PROPERTIES	VISCOSITY at 72°F: Part A: 25,000 cps Part B: 450 cps Mixed: 1,200 cps COLOR Gray COMPRESSIVE STRENGTH ASTM D695 10,800 psi TENSILE STRENGTH ASTM D638 4,900 psi ELONGATION AT BREAK 25 % ABRASION RESISTANCE CS-17 WHEEL, 1 kg LOAD ASTM D4060 0.14 gm loss WATER ABSORPTION ASTM D570 0.14 % (2 hour boil) FLEXURAL STRENGTH ASTM D790 6,700 psi SHORE D HARDNESS ASTM D2240 90 HEAT DISTORTION ASTM D649 130° F TEMPERATURE BOND STRENGTH TO: Concrete 100 % concrete failure THEOR. SPREAD RATE 100 sq. ft. @ 16 mils
CURE SCHEDULE	POT LIFE 50 gram @ 70°F approx. 90+ minutes FIRM 50 gram @ 70°F 6 hours MAX. ABRASION RESISTANCE .. 24 hours FULL CHEMICAL RESISTANCE 10 days

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CHEMICAL RESISTANCE	<p>REAGENT ACIDS</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;"></th> <th style="width: 15%;">RATING</th> </tr> </thead> <tbody> <tr><td>Acetic 1-10%</td><td style="text-align: center;">2</td></tr> <tr><td>Acetic 10-100%</td><td style="text-align: center;">3</td></tr> <tr><td>Hydrochloric all</td><td style="text-align: center;">2</td></tr> <tr><td>Nitric 1-10%</td><td style="text-align: center;">2</td></tr> <tr><td>Nitric 11-40%</td><td style="text-align: center;">3</td></tr> <tr><td>Sulfuric all</td><td style="text-align: center;">2</td></tr> </tbody> </table> <p>SOLVENTS:</p> <table style="width: 100%; border-collapse: collapse;"> <tbody> <tr><td>Acetone</td><td style="text-align: center;">4</td></tr> <tr><td>Toluene</td><td style="text-align: center;">2</td></tr> </tbody> </table> <p>1 = constant immersion 2 = intermittent immersion. 3 = secondary containment (72 hrs) 4 = splash and spill</p> <p>The above Chemical Resistance Guide is not an expression of suitability for service and it is up to the user of this product to test this product in the reagent and determine the products suitability and assume all liability as Progressive Epoxy Polymers makes no recommendation or warranty as to the products suitability. All damages resulting in the products failure shall be the sole responsibility of the user of this product.</p>		RATING	Acetic 1-10%	2	Acetic 10-100%	3	Hydrochloric all	2	Nitric 1-10%	2	Nitric 11-40%	3	Sulfuric all	2	Acetone	4	Toluene	2	<p>REAGENT ALKALIES</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;"></th> <th style="width: 15%;">RATING</th> </tr> </thead> <tbody> <tr><td>Ammonium Hydroxide all</td><td style="text-align: center;">1</td></tr> <tr><td>Sodium Hypochlorite 1-30%</td><td style="text-align: center;">3</td></tr> <tr><td>Sodium Sulfide all</td><td style="text-align: center;">1</td></tr> </tbody> </table>		RATING	Ammonium Hydroxide all	1	Sodium Hypochlorite 1-30%	3	Sodium Sulfide all	1	
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SURFACE PREP	Surface to be topcoated must be clean and free of oils, grease and loose contamination.																												
APPLICATION	<p>Mix Corro Coat FC 2100 N epoxy base with the Corro Coat FC 2100 N curing agent. Use a mechanical mixer if possible to ensure thorough mixing. The mixing ratio is 2/1 (base/curing agent) by volume or 1/0.37 by weight. Corro Coat FC 2100 N does not require a 'sweat-in' or induction time and the mixed components should be used immediately.</p> <p>Potlife is approximately 55-75 minutes at 75°F, so mix only the amount of epoxy that can be easily applied within that time limit. Apply using a brush, roller (product is at the upper limits of rollability), or squeegee. This product can be thinned for improved rollability or thickened to paste like viscosity.</p>																												
TRANSPORT	Nonregulated by USDOT, IATA & IMO.																												

SAFETY: This is a hazardous material if misused. Read and understand the Material Safety Data Sheet (MSDS) before use.

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