

Corro-Coat FC 2100A™ Epoxy TECHNICAL DATA

SOLVENT-FREE EPOXY COATING SYSTEM

Mix and Match Corro-Coat FC 2100 Bases and Curing Agents

Protective Coating
Marine Barrier Coat
Corrosion Protection
Maximum Abrasion Resistance

Solvent-Free and Non-Hazardous to ship
Applies and Cures in Water (fresh, salt, brackish)
Excellent Chemical and Abrasion Resistance
Easy 2:1 Mixing Ratio
Feldspar Ceramic and Kevlar™ Reinforced

STANDARD PRODUCT DESCRIPTION	Corro-Coat FC 2100A (formerly Corro-Coat FC 2100) is a 100% solids, next generation, epoxy coating with excellent chemical and outstanding abrasion resistance. Abrasion resistance is enhanced with the use of Kevlar™ microfibers, feldspar ceramic, and maximum resin rigidity. This epoxy is resistant to sewer gasses, sulfur based chemicals, dilute acids and most caustics. Suitable for full time immersion. Formulated with a high performance cycloaliphatic curing system. The Kevlar and ceramic also add body to the coating resulting in a one coat, no say, high build glaze finish that will withstand severe abuse. Bonds to concrete (wet and dry), fiberglass, 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 with long pot life Non-Sag at thicknesses up to 30-35 mils High Gloss Estimated 'flex' of 4-6 % Applies and cures underwater 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 and hardness Apply by brush, roller (at the upper limits of roller application) or spreader
VISCOSITY	Approximate viscosity at 72°F: Part A: 18,000 cps Part B: 4500 cps Mixed: 3,800 cps
PHYSICAL PROPERTIES	COLOR Light gray, other colors in 15 gallon units COMPRESSIVE STRENGTH ASTM D695 10,000 psi TENSILE STRENGTH ASTM D638 4,800 psi ABRASION RESISTANCE CS-17 WHEEL, 1 kg LOAD ASTM D4060 0.10 gm loss WATER ABSORPTION ASTM D570 0.10 % (2 hour boil) FLEXURAL STRENGTH ASTM D790 6,600 psi SHORE D HARDNESS ASTM D2240 91 HEAT DISTORTION ASTM D649 124° F TEMPERATURE BOND STRENGTH TO: Concrete 100 % concrete failure FILM THICKNESS 10-35 mils (average: 100 sq. ft./gallon @ 16 mils)

MULTI-VENDOR EPOXY SOLUTIONS

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CURE SCHEDULE	POT LIFE 50 gram @ 70°F approx. 90+ minutes FIRM 50 gram @ 70°F 8 - 10 hours																																																						
CHEMICAL RESISTANCE	<table> <thead> <tr> <th>REAGENT ACIDS</th> <th>RATING</th> <th>REAGENT ALKALIES</th> <th>RATING</th> <th></th> </tr> </thead> <tbody> <tr> <td>Acetic 1-5%</td> <td>2</td> <td>Ammonium Hydroxide</td> <td>1-26%</td> <td>2</td> </tr> <tr> <td>Chromic 1-5%</td> <td>2</td> <td>Calcium Chloride</td> <td>All</td> <td>2</td> </tr> <tr> <td>Citric All</td> <td>2</td> <td>Calcium Hypochlorite</td> <td>1-15%</td> <td>2</td> </tr> <tr> <td>Hydrochloric All</td> <td>2</td> <td>Caustic Soda</td> <td></td> <td>2</td> </tr> <tr> <td>Lactic 1-10%</td> <td>2</td> <td>Caustic Potash</td> <td></td> <td>2</td> </tr> <tr> <td>Nitric 1-5%</td> <td>2</td> <td>Sodium Hydroxide</td> <td>All</td> <td>2</td> </tr> <tr> <td>Oxalic 1-20%</td> <td>2</td> <td>Sodium Sulfide</td> <td>1-30%</td> <td>2</td> </tr> <tr> <td>Phosphoric All</td> <td>2</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Sulfuric 1-75%</td> <td>2</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>2 = intermittent immersion. 8 hours with 8 hours dry time.</p>					REAGENT ACIDS	RATING	REAGENT ALKALIES	RATING		Acetic 1-5%	2	Ammonium Hydroxide	1-26%	2	Chromic 1-5%	2	Calcium Chloride	All	2	Citric All	2	Calcium Hypochlorite	1-15%	2	Hydrochloric All	2	Caustic Soda		2	Lactic 1-10%	2	Caustic Potash		2	Nitric 1-5%	2	Sodium Hydroxide	All	2	Oxalic 1-20%	2	Sodium Sulfide	1-30%	2	Phosphoric All	2				Sulfuric 1-75%	2			
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SURFACE PREPARATION	Surface to be topcoated must be clean and free of oils, grease and loose contamination. May be applied to concrete after a 30 days cure period. The coating may be applied sooner based upon the condition of the concrete as determined by the end user or specifying engineer.																																																						
APPLICATION	<p>Mix Corro-Coat FC 2100A epoxy base with the Corro-Coat FC 2100A 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 2100A 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>																																																						
TEMPERATURE	Corro-Coat FC2100A may be applied in temperatures as low as 55°, curing will be slow, however the viscosity of the material will still be workable. Temperature will exert a considerable influence on the rate of curing. In broad terms expect each 10°C, (18°F), rise or fall in temperature to half or double dry times and pot lives. For lower temperature applications use Corro-Coat FC 2100 Fast epoxy.																																																						
TRANSPORT	Corro-Coat FC2100A is nonregulated by USDOT, IATA & IMO.																																																						
NOTE	Epoxies may be thinned to assist application if desired by adding solvents such as lacquer thinner, M.E.K., or xylene. However this may alter the properties of the epoxy depending on the amount of solvent added.																																																						

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

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