

Corro-Coat FC 2100FTM 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
Apply/Cures Underwater

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

<p>STANDARD PRODUCT DESCRIPTION</p>	<p>Corro-Coat FC 2100F (formerly Corro-Coat FC 2100 Flex) is a 100% solids, high build, slightly flexible epoxy coating and has excellent chemical and abrasion resistance. This epoxy is designed with some internal flex which reduces brittleness and improves impact resistance. It 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 KevlarTM and ceramic also add body to the coating resulting in a one coat, no sag, high build glaze finish. Bonds to concrete (wet and dry), fiberglass, steel and wood surfaces.</p>
<p>USES</p>	<p>Most corrosive environments Marine, chemical, pulp and paper Spillways, piping, pilings, columns Underground concrete structures</p>
<p>FEATURES</p>	<p>Solvent-Free Superior adhesion to cold damp concrete Excellent chemical resistance Convenient 1 to 1 ratio by volume (1 to 0.74 by weight) Non-blushing and non-water spotting Non-corrosive and Non-hazmat Estimated 'flex' is 10% KevlarTM 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</p>
<p>VISCOSITY</p>	<p>Approximate viscosity at 72°F: Part A: 18,000 cps Part B: 2,000 cps Mixed 3,800 cps</p>
<p>PHYSICAL PROPERTIES</p>	<p>COLOR Light gray, other colors in 15 gallon units COMPRESSIVE STRENGTH ASTM D695 6,500 psi TENSILE STRENGTH ASTM D638 3,200 psi ABRASION RESISTANCE CS-17 WHEEL, 1 kg LOAD ASTM D4060 0.20 gm loss WATER ABSORPTION ASTM D570 0.16 % (2 hour boil) FLEXURAL STRENGTH ASTM D790 2,900 psi SHORE D HARDNESS ASTM D2240 68-75 HEAT DISTORTION ASTM D649 100° F TEMPERATURE BOND STRENGTH TO: Concrete 100 % concrete failure FILM THICKNESS 10-35 mils (average: 100 sq. ft./gallon @ 16 mils)</p>

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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 style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">REAGENT ACIDS</th> <th style="text-align: left;">RATING</th> <th style="text-align: left;">REAGENT ALKALIES</th> <th style="text-align: left;">RATING</th> </tr> </thead> <tbody> <tr> <td>Citric All</td> <td>no effect</td> <td>Ammonium Hydroxide 1-28%</td> <td>no effect</td> </tr> <tr> <td>Hydrochloric 1-26%</td> <td>no effect</td> <td>Calcium Chloride All</td> <td>no effect</td> </tr> <tr> <td>Lactic 1-5%</td> <td>no effect</td> <td>Caustic Soda</td> <td>no effect</td> </tr> <tr> <td>Nitric 1-5%</td> <td>no effect</td> <td>Caustic Potash</td> <td>no effect</td> </tr> <tr> <td>Oxalic 1-10%</td> <td>no effect</td> <td>Sodium Hydroxide All</td> <td>no effect</td> </tr> <tr> <td>Phosphoric 1-40%</td> <td>no effect</td> <td>Sodium Hypochlorite 1-10%</td> <td>no effect</td> </tr> <tr> <td>Sulfuric 1-75%</td> <td>no effect</td> <td>Sodium Sulfide 1-30%</td> <td>no effect</td> </tr> <tr> <td colspan="4"> MISCELLANEOUS</td> </tr> <tr> <td>Water (potable, salt)</td> <td>no effect</td> <td></td> <td></td> </tr> <tr> <td>Sewer Gasses</td> <td>no effect</td> <td></td> <td></td> </tr> <tr> <td>Grease, oils</td> <td>no effect</td> <td></td> <td></td> </tr> </tbody> </table>	REAGENT ACIDS	RATING	REAGENT ALKALIES	RATING	Citric All	no effect	Ammonium Hydroxide 1-28%	no effect	Hydrochloric 1-26%	no effect	Calcium Chloride All	no effect	Lactic 1-5%	no effect	Caustic Soda	no effect	Nitric 1-5%	no effect	Caustic Potash	no effect	Oxalic 1-10%	no effect	Sodium Hydroxide All	no effect	Phosphoric 1-40%	no effect	Sodium Hypochlorite 1-10%	no effect	Sulfuric 1-75%	no effect	Sodium Sulfide 1-30%	no effect	 MISCELLANEOUS				Water (potable, salt)	no effect			Sewer Gasses	no effect			Grease, oils	no effect		
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SURFACE PREPARATION	Surface to be topcoated must be clean and free of oils, grease and loose contamination.																																																
APPLICATION	<p>Mix Corro-Coat FC 2100F epoxy base with the Corro-Coat FC 2100F curing agent. Use a mechanical mixer if possible to ensure thorough mixing. The mixing ratio is 1/1 (base/curing agent) by volume or 1/0.74 by weight. Corro-Coat FC 2100F 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. For lower temperature applications use Corro-Coat FC 2100 Fast epoxy.</p> <p>NOTE: Due to the thick nature of this solvent free coating, application (especially in cooler temperatures when the viscosity thickens more) can be simplified by transferring the coating to the application surface and spreading it out with a wide putty knife (or dry wall float, etc.). You can then smooth it out with a brush or roller.</p>																																																
TEMPERATURE	Corro-Coat FC2100F 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.																																																
TRANSPORT	Corro-Coat FC2100F is 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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