CorCote FRE is a glass-fiber reinforced, 100% solids epoxy designed for corrosion protection of concrete and steel in municipal and industrial wastewater treatment facilities, especially where a high build reinforced coating is required.

- 100% solids
- Resistant to water and wastewater treatment immersion

### Recommended Uses

Protects concrete and steel surfaces in immersion and atmospheric exposure.

Ideally suited for coating, lining, and containment applications in water and wastewater facilities including:

- Lift stations  
- Concrete pipe  
- Wet wells  
- Steel pipe  
- Manholes  
- Sumps  
- Digesters  
- Trenches  
- Clarifiers  
- Sluice ways  
- Basins  
- Influent chambers

### Performance Characteristics

| Substrate* | Steel |
| Surface Preparation* | SSPC-SP10 |
| System Tested* | 1 ct. Cor-Cote FRE @ 80.0 mils (2000 microns) to 100.0 mils (2500 microns) dft |

*unless otherwise noted below

### Product Description

CorCote FRE is a glass-fiber reinforced, 100% solids epoxy designed for corrosion protection of concrete and steel in municipal and industrial wastewater treatment facilities, especially where a high build reinforced coating is required.

### Product Characteristics

**Finish:** Matte; shows some fiber in finished product

**Color:** Buff, Gray

**Volume Solids:** 100%

**VOC (measured):** 160 g/L (EPA Method 24)

**Weight Solids:** 100%, calculated mixed

**Mix Ratio:** 1:1, mix by volume

### Recommended Spreading Rate per coat:

<table>
<thead>
<tr>
<th>Wet mils (microns)</th>
<th>Minimum</th>
<th>Maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td>60.0 (1500)</td>
<td>120.0 (3000)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Dry mils (microns)</th>
<th>Minimum</th>
<th>Maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td>13.3 (0.3)</td>
<td>26.6 (0.7)</td>
<td></td>
</tr>
</tbody>
</table>

### Drying Schedule @ 120.0 mils wet (3000 microns):

- **@ 77°F/25°C**
  - 50% RH
  - To touch: 2 hours
  - To handle: 8 hours
  - To recoat:
    - Minimum: 8 hours
    - Maximum: 2 weeks
  - Cure to service: 2 days

*If maximum recoat time is exceeded, scarify surface before recoating. Drying time is temperature, humidity, and film thickness dependent.

**Pot Life:** 30 minutes

**Sweat-in-Time:** None

**Shelf Life:** 6 months, unopened. Store indoors at 40°F (4.5°C) to 100°F (38°C).

**Flash Point:** 204°F (95°C), PMCC ASTM D93

**Clean Up/Reducer:** Clean up spray equipment by flushing system with R2KT4 to remove fibers from system. For general cleanup after flushing with R2KT4, use MEK. Do not thin material.

### Additional Information

Epoxy coatings may darken or discolor following application and curing and may chalk when exposed to sunlight.

Find more information on the Sherwin-Williams website: [www.sherwin-williams.com/protective](http://www.sherwin-williams.com/protective)
COR-COTE FRE
FIBER REINFORCED HIGH BUILD EPOXY

PART A B62H460
PART A B62A460
PART B B62V460
BUFF
GRAY
HARDENER

PRODUCT INFORMATION

Surface Preparation

Surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, dirt, loose rust, and other foreign material to ensure adequate adhesion.

Refer to product Application Bulletin for detailed surface preparation information.

Minimum recommended surface preparation:

* Iron & Steel:
  - Atmospheric: SSPC-SP 6/NACE 3, 2 mil (50 micron) profile
  - Immersion: SSPC-SP 10/NACE 2, 2-3 mil (50-75 micron) profile

* Concrete & Masonry:
  - Immersion: SSPC-SP 13/NACE 6-4.3.1 or 4.3.2, or ICRI No. 310.2R, CSP 3-5

Surface Preparation Standards

<table>
<thead>
<tr>
<th>Condition of Surface</th>
<th>ISO 8501-1</th>
<th>SSPC</th>
<th>NACE</th>
</tr>
</thead>
<tbody>
<tr>
<td>White Metal</td>
<td>Sa 3</td>
<td>SP 5</td>
<td>1</td>
</tr>
<tr>
<td>Near White Metal</td>
<td>Sa 2.5</td>
<td>SP 10</td>
<td>2</td>
</tr>
<tr>
<td>Commercial Blast</td>
<td>Sa 2</td>
<td>SP 6</td>
<td></td>
</tr>
<tr>
<td>Brush-Off Blast</td>
<td>Sa 1</td>
<td>SP 7</td>
<td>4</td>
</tr>
<tr>
<td>Hand Tool Cleaning Rusted</td>
<td>C St 2</td>
<td>SP 2</td>
<td>-</td>
</tr>
<tr>
<td>Power Tool Cleaning Rusted</td>
<td>C St 3</td>
<td>SP 2</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>D St 3</td>
<td>SP 3</td>
<td>-</td>
</tr>
</tbody>
</table>

Do not tint.

Application Conditions

Temperature: 50°F (10°C) minimum, 100°F (38°C) maximum
(Air, surface, & material)
At least 5°F (2.8°C) above dew point

Relative humidity: 85% maximum

Refer to product Application Bulletin for detailed application information.

Test Application Only Information

Packaging:
- Part A: 5 gallon (18.9L) container
- Part B: 5 gallon (18.9L) container

Weight: 12.6 ± 0.2 lb/gl 1.5 Kg/L

Tinting

Application of any tint not recommended.

Disclaimer

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The systems listed above are representative of the product’s use, other systems may be appropriate.

The Sherwin-Williams Company warrants our products to be free of manufacturing defects in accord with applicable Sherwin-Williams quality control procedures. Liability for products proven defective, if any, is limited to replacement of the defective product or the refund of the purchase price paid for the defective product as determined by Sherwin-Williams. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY SHERWIN-WILLIAMS, EXPRESSED OR IMPLIED, STATUTORY, BY OPERATION OF LAW OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.
Surface must be clean, surface dry, and in sound condition. Remove all oil, dust, grease, dirt, loose rust, and other foreign material to ensure adequate adhesion.

Carbon Steel, Immersion Service:
Clean and degrease the surface prior to abrasive blasting per SSPC-SP 1 Solvent Cleaning. Methods described in SSPC-SP 1 include solvents, alkali, detergent/water, emulsions, and steam. The surface shall be abrasive blasted to SSPC-SP10/NACE No. 2 Near-White Blast Cleaning with a 2.0-3.0 mil (50-75 micron) profile. The anchor pattern shall be sharp with no evidence of a polished surface. The finished surface shall be free of all visible oil, grease, dust, dirt, mill scale, rust, coating, oxides, corrosion products, and other foreign matter with no more than 5% staining. After blasting, all dust and loose residue should be removed from the surface by acceptable means. Coat steel the same day as it is prepared and prior to the formation of rust.

Concrete and Masonry, Immersion Service:
Decontamination of the concrete surface requires the removal of oils, grease, wax, fatty acids and other contaminants and may be accomplished by the use of detergent scrubbing with a Sherwin-Williams cleaner and degreaser, low pressure water cleaning (less than 5,000 psi), steam cleaning, or chemical cleaning. The preferred methods for creating a surface profile, including the removal of dirt, dust, laitance and curing compounds, is abrasive blasting or scarifying to achieve an ICRI surface equivalent to CSP 3-5. Fill all cracks, voids, and bug holes with cementitious grout or Steel-Seam FT910. See ICRI Technical Guideline No. 310.2R for additional information.

The following is a guide. Changes in pressures and tip sizes may be needed for proper spray characteristics. Always purge spray equipment before use with listed reducer. Any reduction must be compliant with existing VOC regulations and compatible with the existing environmental and application conditions.

Application requires a hopper feed delivery of mixed materials. Changes in pressures and tip sizes may be needed for proper spray characteristics. Always purge spray equipment and hoses before and after use with Cor-Cote SC.

Clean Up Solvent ..........Reducer R2KT4

Airless Spray
Pump..............................Xtreme Mix 45:1 or 50:1
Pressure.........................1900 psi at the pump
Hose...............................1/2" ID hose (25 ft)
Tip ..................................Graco Pistol grip mastic gun using XHD 531 tip
Filter................................None
Reduction.........................None

Brush
Brush..............................Not recommended

Roller
Cover ..............................Not recommended

If specific application equipment is not listed above, equivalent equipment may be substituted.
Surface preparation must be completed as indicated.

Prime pump and gun assembly with R2KT4.

Mixing Instructions: Mix contents of each component thoroughly with low speed power agitation. Make certain no pigment or fiber remains on the bottom of the can. Then combine one parts by volume of Part A with one part by volume of Part B. Thoroughly agitate the mixture with power agitation. Fill hopper container with mixed coating.

Apply paint at the recommended film thickness and spreading rate as indicated below:

<table>
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<td>~Coverage sq ft/gal (m²/L)</td>
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Drying Schedule @ 120.0 mils wet (3000 microns):

- To touch: 2 hours
- To handle: 8 hours
- To recoat:
  - Minimum: 8 hours
  - Maximum: 2 weeks
- Cure to service: 2 days

If maximum recoat time is exceeded, scarify surface before recoating. Drying time is temperature, humidity, and film thickness dependent.

Pot Life: 30 minutes

Sweat-in-Time: None

Application of coating above maximum or below minimum recommended spreading rate may adversely affect coating performance.

Clean spills and spatters immediately with Reducer. Clean pump, hose, and gun by flushing system with R2KT4 to remove fiber. Then flush tools immediately after use with MEK.

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