COROBOND™ 100
EPOXY PRIMER/SEALER

**PRODUCT DESCRIPTION**

COROBOND 100 EPOXY PRIMER/SEALER is a high solids, low viscosity, penetrating epoxy primer/sealer formulated specifically for use over concrete surfaces in secondary containment environments.

- Helps prevent "blow-back" and "outgassing"
- Low viscosity
- Fast dry
- Superior penetrating characteristics
- Improved visibility during application

**PRODUCT CHARACTERISTICS**

<table>
<thead>
<tr>
<th>Finish:</th>
<th>Flat sheen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color:</td>
<td>Off White, Haze Gray</td>
</tr>
<tr>
<td>Volume Solids:</td>
<td>100%, mixed</td>
</tr>
<tr>
<td>VOC (calculated):</td>
<td>&lt;100 g/l, .83 lb/gal, mixed</td>
</tr>
<tr>
<td>Mix Ratio:</td>
<td>2:1 by volume, premeasured</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Recommended Spreading Rate per coat:</th>
<th>Minimum</th>
<th>Maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wet mils (microns)</td>
<td>4.0 (100)</td>
<td>6.0 (150)</td>
</tr>
<tr>
<td>Dry mils (microns)</td>
<td>4.0 (100)</td>
<td>6.0 (150)</td>
</tr>
<tr>
<td>Coverage sq ft/gal (m²/L)</td>
<td>265 (6.5)</td>
<td>400 (9.8)</td>
</tr>
<tr>
<td>Theoretical coverage sq ft/gal (m²/L) @ 1 mil / 25 microns df</td>
<td>1604 (39.4)</td>
<td></td>
</tr>
</tbody>
</table>

Apply primer to achieve uniform hiding, appearance, and complete wetting of the concrete surface, approximately 4.0-6.0 mils (100-150 microns) wft. Coating will be partially absorbed into the concrete. Roll out any puddles.

**Drying Schedule @ 5.0 mils wet (125 microns):**

- To touch: 2 hours
- To recoat:
  - minimum: 3 hours
  - maximum: 24 hours*
- To cure: 7 days

*Can be recoated up to 30 days after application with Phenicon HS, Phenicon HS FF, Cor-Cote HCR, Cor-Cote RPP, Macropoxy 646, Sher-Glass FF, or Steel-Seam FT910. 30 day recoat acceptable for non-immersion or secondary containment applications. Check adhesion as necessary.

**Recommended Uses**

- Corobond 100 can be used on all bare concrete surfaces where a 2 part epoxy, penetrating primer is recommended. Its low viscosity and quick recoat time allow it to be used for areas that need a fast turnaround.

- Secondary Containment

- Designed specifically as a high performance primer sealer for secondary containment applications

- Suitable for use in the Mining & Minerals Industry

**Performance Characteristics**

- A high performance primer/sealer for new or existing bare concrete surfaces
- Helps prevent "blow-back" and "outgassing" of topcoats superior penetrating characteristics
- Superior penetrating characteristics
- Refer to applicable topcoat for additional performance information
- White in color to provide contrast with concrete
- Excellent penetrating properties to provide a "tight and sound" substrate prior to subsequent topcoats
- Can recoat while primer is still tacky
- Designed to be topcoated

**Clean Up:**

Reducer #54, R7K54

**Shelf Life:**

36 months, unopened
Store indoors at 40°F (4.5°C) to 100°F (38°C).

**Flash Point:**

100°F (38°C), PMCC, mixed

**Reduction:**

Not recommended

**References:**

continued on back
**COROBOND™ 100**
**EPOXY PRIMER/SEALER**

**PRODUCT INFORMATION**

**Recommeded Systems**

<table>
<thead>
<tr>
<th>Concrete, Secondary Containment: Concrete &amp; Masonry:</th>
<th>Dry Film Thickness / ct.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 ct. Corobond 100 Epoxy Primer/Sealer</td>
<td>4.0-6.0 (100-150) Mils (Microns)</td>
</tr>
<tr>
<td>Apply primer to achieve uniform hiding, appearance, and complete wetting of the concrete surface. Coating will be partially absorbed into the concrete. Roll out any puddles.</td>
<td></td>
</tr>
<tr>
<td>1-2 cts. Kem Cati-Coat HS Epoxy Filler/Sealer, as required to fill voids and bugholes to provide a continuous substrate.</td>
<td></td>
</tr>
<tr>
<td>1-2 cts. Cor-Cote E.N. 7000 Epoxy Novolac Coating</td>
<td></td>
</tr>
</tbody>
</table>

*Dependent on the severity of the environment, other acceptable topcoats may include Cor-Cote HCR FF, Phenicon HS, or Shelcote II.

**Mortar System:**

| 1 ct. Corobond 100 Epoxy Primer/Sealer              | 4.0-6.0 (100-150) Mils (Microns) |
| 1 ct. Corobond 100 Epoxy with 70 lbs Type T Aggregate per 1.25 gallons3/16" dft yields 44 sq. ft. |
| 1 ct. Cor-Cote HCR Epoxy                            | 15.0-20.0 (375-500) Mils (Microns) |
| 1 ct. Cor-Cote HCR FF Flake Filled Epoxy            |

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

**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:
Concrete & Masonry: SSPC-SP13/NACE 6, or ICRI No. 310.2R, CSP 3-6*

*Refer to System Selection Guide Surface Preparation Standards

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

**Tinting**

Do not tint.

**Application Conditions**

Temperature: 55°F (13°C) minimum, 100°F (38°C) maximum (air, surface, and material) At least 5°F (2.8°C) above dew point
Relative humidity: 85% maximum

Refer to product Application Bulletin for detailed application information.

**Ordering Information**

Packaging:
- 3 gallon (11.3L) mix Part A: 2 gallons (7.56L)
  Part B: 1 gallon (3.78L)
- 15 gallon (75L) mix Part A: Two 5 gallon (18.9L) containers Part B: One 5 gallon (18.9L) container

Weight: 9.5 ± 0.2 lb/gal ; 1.15 Kg/L, mixed

**Safety Precautions**

Refer to the MSDS sheet before use.

Published technical data and instructions are subject to change without notice. Contact your Sherwin-Williams representative for additional technical data and instructions.

**Warranty**

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.

www.sherwin-williams.com/protective
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.

Concrete and Masonry
For surface preparation, refer to SSPC-SP13/NACE 6, or ICRI No. 310.2R, CSP 3-6*. Surfaces should be thoroughly clean and dry. Concrete and mortar must be cured at least 28 days @ 75°F (24°C). Remove all loose mortar and foreign material. Surface must be free of laitance, concrete dust, dirt, form release agents, moisture curing membranes, loose cement and hardeners. Fill bug holes, air pockets and other voids with Steel-Seam FT910.

Follow the standard methods listed below when applicable:
- ASTM D4258 Standard Practice for Cleaning Concrete.
- ASTM D4259 Standard Practice for Abrading Concrete.
- ASTM D4260 Standard Practice for Etching Concrete.
- ASTM F1869 Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete.
- SSPC-SP 13/Nace 6 Surface Preparation of Concrete.
- ICRI No. 310.2R Concrete Surface Preparation.

*Refer to System Selection Guide

Temperature: 55°F (13°C) minimum, 100°F (38°C) maximum
Relative humidity: 85% maximum

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.

Reduction .................Not recommended
Clean Up ....................Reducer #54, R7K54
Airless Spray
- Pump .....................30:1 minimum
- Hose .....................3/8” ID
- Tip .......................0.19”
- Filter ...................60 mesh

Brush
- Brush .....................Natural Bristle

Roller
- Cover .....................3/8” woven with solvent resistant core

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

Mixing Instructions: Mix components only after all surfaces are completely prepared and ready to be coated. Thoroughly agitate each component using low speed mechanical agitation, i.e., Jiffy Blade model ES. Then combine 2 parts by volume of Part A with 1 part by volume Part B. Using mechanical agitation, Jiffy Blade ES, thoroughly mix material for three minutes at 250 rpm. Only mix full units. Be sure to mix material from the bottom and sides of the containers.

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

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Apply primer to achieve uniform hiding, appearance, and complete wetting of the concrete surface, approximately 4.0-6.0 mils (100-150 microns) wft. Coating will be partially absorbed into the concrete. Roll out any puddles.

Drying Schedule @ 5.0 mils wet (125 microns):

- @ 77°F/25°C
- 50% RH
- To touch: 2 hours
- To recoat: minimum: 3 hours, maximum: 24 hours*
- To cure: 7 days

*Can be topcoated up to 30 days after application with Phenicon HS, Phenicon HS FF, Cor-Cote HCR, Cor-Cote RPP, Macropoxy 646, Sher-Glass FF, or Steel-Seam FT310. 30 day recoat acceptable for non-immersion or secondary containment applications. Check adhesion as necessary.

Primer can be topcoated even if the surface is still tacky. If maximum recoat time is exceeded, abrade surface before recoating.

Drying time is temperature, humidity, and film thickness dependent.

Pot Life: 45 minutes

Sweat-in-time: None required

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

Clean Up Instructions

Clean spills and spatters immediately with Reducer #54, R7K54. Clean tools immediately after use with Reducer #54, R7K54. Follow manufacturer’s safety recommendations when using any solvent.

Disclaimer

The information and recommendations set forth in this Product Data Sheet are based upon tests conducted by or on behalf of The Sherwin-Williams Company. Such information and recommendations set forth herein are subject to change and pertain to the product offered at the time of publication. Consult your Sherwin-Williams representative to obtain the most recent Product Data Information and Application Bulletin.

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