



CORRO-SHIELD  
SUPERIOR PERFORMANCE COATINGS

## CORRO-SHIELD Industrial Flooring and Walls

[www.corroshield.com](http://www.corroshield.com)

# Product Data Sheet (Rev. 09/16)

## CORRO E-CRETE SL (Ref. No. 311)

### Product Description

- 3-Part, Water-Based, **Self-Leveling Epoxy Cement** with Dense, Hard Aggregates consisting of: Part A - Resin  
Part B – Hardener  
Part C – Corro-Fill (Aggregate), plus Tint
- V.O.C. Compliant/Low Odor/Solvent Free
- No Limitations to Thickness
- Can Top Coat with **Corro E-Cote (Ref. No. 148)**
- Available in **Trowelable version Corro E-Crete TR (Ref. No. 219)**
- Satin Finish
- Meets ASTM C-884 – Thermal Compatibility with Concrete – Steam and Hot Water Wash Downs
- No Isocyanates
- Limited Shrinkage
- Reduced Pinholes – Does Not Form Carbon Dioxide Gas like Urethane Cements
- Water Wipe-up

### Special Attributes

- **Heat Resistance and Cold Resistant from -40°F/ -40°C to 450°F/232°C**
- U.S.D.A. and C.F.I.A. Compliant
- Excellent Stain Resistance
- Good Abrasion Resistance
- High Performance in Cementitious Epoxy Flooring
- Excellent Adhesion to Green Concrete and Old
- Low Formulation Viscosity Allows Excellent Penetration to Concrete Substrate
- Good Hot Oil Resistance
- Fast Turn Around Times
- Good Chemical Resistance (Refer to Chemical Resistance Chart)
- Good Color Stability
- Good Workability and Easy to Clean Up
- Rapid Development of Hardness Even at Lower Temperature With a 50% Reduction in Time to Foot Traffic Compared to Traditional Cementitious Urethanes
- Longer pot life up to 4 times compared to traditional Cementitious Urethane based flooring formulations
- Moisture Insensitivity
- Excellent Moisture Permeability Compared to Typical Cementitious Urethanes Based Flooring
- Good Surface Appearance Compared to Pinhole Issues with Traditional Urethane Based Flooring
- Good Thermal Shock Resistance

### Colors

Black, White, Gray, Dark Gray, Brick Red, Beige, Green and Brown. Special colors are available upon request, for an additional charge.

### Common Uses

- Thermal Shock Areas
- High and Low Temperature Areas
- Bakeries
- Meat Processors
- Dairies
- Poultry Processors
- Commercial Kitchens/Restaurants
- Fry Areas
- Monolithic for Heavy Traffic
- Indoor or Outdoor Areas
- Freezers
- Steam and Hot Water Wash Downs Areas

### Packaging

**Corro E-Crete SL** is available in the following pre-measured pak sizes:

Standard Pak – 4 Gallon Pak 50 SF @1/8”

Ten Pak – 10 x 4 Gallon Pak 500 SF @1/8”

Coverage will vary depending on surface texture.

**\*Also available in a Trowelable version Corro-E-Crete TR (Ref. No. 219)**

### Priming

**Corro E-Crete SL** must be primed with one of the following primers for ultimate adhesion:

**Dry Concrete - Corro E-Seal (Ref. No. 151) or Corro E-Cote (Ref. No. 148)**

**Moisture up to 7 lbs - Corro-Prime (Ref. No. 600)**

**Moisture up to 15 lbs - Aqua-Cure (Ref. No. 612)**

**Moisture up to 25 lbs - Corro-Cure LVFS (Ref. No. 602)**

### Mixing and Application

#### **DO NOT MIX BY HAND**

Apply with pin rake, cam rake or preferred tool by installer.

Detailed mixing and application instructions are available upon request.

**Apply at temperatures from 40°F/5°C to 85°F/29°C degrees maximum and no more than 85% humidity.**

**Clean Up**

Corro E-Crete, while still wet, can be cleaned up with warm soapy water, but if allowed to set then mechanical cleaning or the application of a very strong paint stripper will have to be used.

**Safety**

As with all epoxies, good hygienic habits must be observed and the wearing of protective clothing and gloves is advised. Before using any of the products, please read the container label warnings and their respective material safety data sheets.

**Mixing Ratio by Volume**

Part A : Part B – Pre-Measured  
 A & B Mixed: Corro-Fill – Pre-Measured  
 Supplied as Pre-Measured Kits – DO NOT SPLIT KITS

**Mixing Ratio by Weight**

Part A : Part B – 1:1.25

**Technical Assistance**

If you have any questions regarding this product, please call 1-800-298-7637 for further information.

SET TIMES Do not apply in temperatures lower than 40°F/5°C or higher than 85°F/29°C	
<b><u>Set Times (Slab Temperature)</u></b>	<b>73°F / 23°C</b>
Pot Life	15 Minutes
Recoat Time	2 Hours
Foot Traffic	2 Hours
Forklift Traffic	12 Hours
Full Chemical Resistance*	7 Days

\* Refer to Chemical Resistance Chart

ASTM	Test Method	Filled System
C-579	Compressive Strength	5158 psi
C-579	Compressive Resiliency	7.5%
	<b>Ratio of Force to % Resiliency</b>	<b>688:1</b>
C-579	Compressive Strength @ Yield	4125 psi
C-580	Flexural Strength	3589 psi
C-580	Flexural Modulus of Elasticity	6,5 x 10 <sup>5</sup>
C-307	Tensile Strength	1729 psi
C-307	Tensile Elongation	5.2%
	<b>Ratio of Stress to % Elongation</b>	<b>333:1</b>
C-321	Bond Strength to Concrete	Failure in Concrete
C-884	Thermal Compatibility to Concrete (Filled)	Pass

**WARRANTY**

The data, statements and recommendations set forth in this product information sheet are based on testing, research and other development work which has been carefully conducted by us, and we believe such data, statements and recommendations will serve as reliable guidelines. However, this product is subject to numerous uses under varying conditions over which we have no control, and accordingly, we do NOT warrant that this product is suitable for any particular use. Users are advised to test the product in advance to make certain it is suitable for their particular production conditions and particular use or uses.

**WARRANTY** - All products manufactured by us are warranted to be first class material and free from defects in material and workmanship.

Liability under this warranty is limited to the net purchase price of any such products proven defective, or, at our option, to the repair or replacement of said products upon their return to us transportation prepaid. All claims hereunder on defective products must be made in writing within 30 days after the receipt of such products in your plant and prior to further processing or combining with other materials and products. WE MAKE NO WARRANTY, EXPRESS OR IMPLIED, AS TO THE SUITABILITY OF ANY OF OUR PRODUCTS FOR ANY PARTICULAR USE, AND WE SHALL NOT BE SUBJECT TO LIABILITY FROM ANY DAMAGES RESULTING FROM THEIR USE IN OPERATIONS NOT UNDER OUR DIRECT CONTROL.

THIS WARRANTY IS EXCLUSIVE OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, AND NO REPRESENTATIVE OF OURS OR ANY OTHER PERSON IS AUTHORIZED TO ASSUME FOR US ANY OTHER LIABILITY IN CONNECTION WITH THE SALE OF OUR PRODUCTS.