

Corro-Shield International, Inc.

7059 Barry Street, Rosemont, IL 60018 • 847/298-7770 • 847/298-7784 fax

PRODUCT DATA SHEET (Rev. 1/06)

CORRO HI-COTE (Ref. No. 102)

Product Description

- **Corro Hi-Cote** is Formulated With a Blend of 100% Solids Bis F and Novolac Resins, Supplied as a 2 Part Epoxy Coating System Consisting of the Following:
Part A – Pigmented Resin
Part B – Hardener
- Applied by Roller, Brush, or Spray Gun
- Usually 10 Mils Per Coat, Two Coats Needed
- High Gloss, Good Color Retention, Good Aesthetics
- Smooth or Textured Finish
- For Texture, Use Silica/Granite or Aluminum Oxide Between Coats
- Low Odor/Solvent Free
- V.O.C. Compliant
- Easy to Clean, Hygienic Surface
- Resin Rich Surface Helps to Resist Bacterial Growth

Special Features

- Meets ASTM C-884
Thermal Compatibility with Concrete
- For Tank Coating Use Corro Hi-Cote GF (Glass Filled)
- Excellent Adhesion to Clean, Sound, Damp Concrete
- Excellent Adhesion to 24 Hour Old Concrete by Priming with **Corro-Cure**
- Built in Resiliency for Thermal Shock (Steam Cleaning) and Impact Resistance
- Excellent Wear Resistance
- Can be Applied Indoors or Outdoors
- Resistant to Many Acids, Solvents and Cleaning Solutions, including 98% Sulfuric Acid. (Refer to Chemical Resistance Chart)
- Water Wipeable
- User Friendly Mix Ratio of 2:1 By Volume

Application

- Thin Film Roller Coat
- Top Coat for Corro Hi-Flor and Corro Hi-Flor SL
- Tank Coating
- Chemical Exposure Areas
- Secondary Containment Areas

Packaging

Corro Hi-Cote is available in the following pre-measured pak sizes:

- One Gallon Pak (160 SF @ 10 mils)
- 2 ½ Gallon Pak (400 SF @ 10 mils)
- 4 Gallon Pak (640 SF @ 10 mils)

Coverage will vary depending on surface texture.

Priming

Corro Hi-Cote is resin-rich and does not need a primer on “good” concrete. For deteriorated concrete, priming will help reduce outgassing, blistering, and dry spots. Refer to **Corro-Prime** data sheet. If the **Corro Hi-Cote** is going to be applied over “green” concrete, then our **Corro-Cure** (a slow set primer) must be used first. (Refer to **Corro-Cure** data sheet.)

Setting Times

Corro Hi-Cote is available in the following setting times: **Corro Hi-Cote** for normal ambient temperature.

Corro Hi-Cote FS (fast set) for fast setting times at ambient temperature.

Mixing and Application

Detailed mixing and application instructions are available upon request.

Colors

Black, White, Ivory, Gray, Dark Gray, Brick Red, Beige, Green and Brown. Special colors are available upon request, for an additional charge. Certain chemicals may stain the epoxy floor, but this will in no way effect the integrity of the system.

Clean Up

Corro Hi-Cote, 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.

Precautions

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 their respective safety data sheets.

Technical Assistance

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

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Solids by Weight: 100%

Mixing Ratio by Volume

Part A:Part B – 2:1

Density (lbs./gallon)

Part A: 12.75

Part B: 8.83

Mixed A & B: 11.44

Theoretical Coverage

1 Gallon Pak – 160 SF @ 10 mils

Set Times (Slab Temperature)	50°F.	73°F.	90°F.
Pot Life	1 Hour	45 Minutes	25 Minutes
Recoat Time - Floors	18 Hours	15 Hours	12 Hours
Recoat Time - Walls	12 Hours	9 Hours	6 Hours
Foot Traffic	18 Hours	15 Hours	12 Hours
Forklift Traffic	72 Hours	48 Hours	24 Hours
Full Chemical Resistance*	9 Days	7 Days	5 Days

* Refer to Chemical Resistance Chart

Viscosity (Using LV.DV1+ Viscometer)	Test Method @ 73°F.
Part A – 9,000 – 11,000 cps	Using LV3 Spindle at 12 RPM
Part B – 450 – 600 cps	Using LV3 Spindle at 100 RPM
A & B Mixed – 1,300 – 1,500 cps	Using LV3 Spindle at 60 RPM

ASTM	TEST METHOD @ 73°F.	Results
D695	Compressive Strength	5946 psi
D695	Percent Compressive Resiliency	42.73
D695	Compressive Strength @ Yield	608 psi
D695	Percent Compressive Resiliency @ Yield	6.36%
D790	Flexural Strength	2700 psi
D790	Flexural Modulus of Elasticity	1,43x 10 ⁵
D638	Tensile Strength	1500 psi
D638	Percent Tensile Elongation	15.51%
D4541	Bond Strength to Concrete	Failure in Concrete
C884	Thermal Compatibility to Concrete	Pass
D570	Absorption	Less Than .1%

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 numerable 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

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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.