

Corro-Shield International, Inc.

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PRODUCT DATA SHEET (Rev. 6/02)

CORRO HI-LINER (Ref. No. 503)

Product Description

- 3-Part, 100% Solids, Trowellable Epoxy Liner System Consisting of the Following:
 - Part A – Resin
 - Part B – Hardener
 - Part C – Special Blend of Fine Fillers (Corro-Fill), plus Tint
- Can Be Applied Up to 1/8" Thick in One Application
- VOC Compliant
- Low Odor/Solvent Free
- Easy to Clean, Hygienic Surface
- Resin Rich Surface Helps to Resist Bacterial Growth

Special Features

- Meets ASTM C-884 Thermal Compatibility with Concrete
- Built in Resiliency for Thermal Shock (Steam Cleaning) and Impact Resistance
- Excellent Adhesion to Clean, Sound, Damp Concrete
- Excellent Adhesion to Sandblasted Metal
- Excellent Adhesion to 24 Hour Old Concrete by Priming with **Corro-Cure**
- Excellent Chemical Resistance, Including 98% Sulfuric Acid (Refer to Chemical Resistance Chart)
- Excellent Abrasion Resistance
- Can be Used Indoors or Outdoors
- User Friendly Mix Ratios
- Water Wipeable
- Can be Smoothed Out With a Paint Roller Moistened with Water
- Can Be Reinforced with Fiberglass For Bridging Cracks

Application

- Heavy Duty Protection for Vertical or Overhead Areas
- Smooths Out Pitted Walls
- Protection to Trenches, Pits, Sumps, Manholes and Concrete Pipes
- Can Also Be Used for Grouting of Joints and Bedding of Tiles

Packaging

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

One Gallon Pak (12 SF @ 1/8")

Three Gallon Pak (36 SF @ 1/8")

Coverage will vary depending on surface texture.

Priming

Corro Hi-Liner is resin-rich and does not need a primer on sound concrete. For deteriorated concrete, priming will help reduce outgassing, blistering, and dry spots. Refer to **Corro-Prime** data sheet. If the **Corro Hi-Liner** 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.)

Set Times

Corro Hi-Liner is available in the following setting times. However, for faster setting times, **Corro-Accelerator** may be added. Please refer to **Corro-Accelerator** data sheet or consult factory for further details.

Corro Hi-Liner - At ambient or higher temperatures.

Corro Hi-Liner F.S. (Fast Set) For faster set times at ambient or higher temperatures.

See **Set Time Chart** for various setting times.

Mixing and Application

Detailed mixing and application instructions are available upon request.

Colors

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

Clean Up

Corro Hi-Liner 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%
Density (lbs./gallon)
 Part A: 9.8
 Part B: 8.85
 Mixed A & B: 13.6

Mixing Ratio by Volume

Part A:Part B – 2:1
 A & B Mixed:Corro-Fill: 1:1.65

Theoretical Coverage

1 Gallon Pak – 12 SF @ 1/8”
 3 Gallon Pak – 36 SF @ 1/8”

Set Times (Slab Temperature)	50°F.	73°F.	90°F.
Pot Life	1 Hour	45 Minutes	25 Minutes
Foot Traffic	18 Hours	15 Hours	12 Hours
Full Chemical Resistance	9 Days	7 Days	5 Days

ASTM	TEST METHOD	Liquids Only	Filled System
C579	Compressive Strength/Yield		7391 psi
C579	Compressive Deformation @ Yield		6%
C579	Compressive Deformation		8%
D695	Compressive Strength	7250 psi	
D695	Compressive Strength @ Yield	3417 psi	
D695	Compressive Deformation	44%	
D695	Compressive Deformation @ Yield	10.75%	
C580	Flexural Strength		4073 psi
C580	Flexural Modulus of Elasticity		6.5 x 10 ⁵
D790	Flexural Strength	4640 psi	
D790	Flexural Modulus of Elasticity	1.76 x 10 ⁵	
C307	Tensile Strength		2200 psi
C307	Tensile Elongation		3%
D638	Tensile Strength	1740 psi	
D638	Tensile Elongation	14.5%	
C321	Bond Strength to Concrete	Failure in Concrete	
D4541	Bond Strength to Concrete		Failure in Concrete
C884	Thermal Compatibility to Concrete (Filled)		No Delamination
C884	Thermal Compatibility to Concrete (Unfilled)	No Delamination	
C413	Absorption Filled		< .1%
C413	Absorption Unfilled	0%	

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 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.