

Corro-Shield International, Inc.

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PRODUCT DATA SHEET (Rev. 11/01)

CORRO HI-FLOR SL (Ref. No. 301)

Product Description

- 100% Solids Self-Leveling Floor 1/16" – 1/8" thick
- Two Lifts for ¼"
- Highly Versatile
- Restores Lightly Pitted Concrete
- Moderate to High Wear Areas
- Smooth or Textured
- Texture with Silica, Granite or Aluminum Oxide
- If Textured, Topcoat with Corro Hi-Cote
- For More Decorative Finish, Use Colored Quartz or Vinyl Flakes and Topcoat with Corro-Seal
- Low Odor/Solvent Free
- U.S.D.A. Compliant/V.O.C. Compliant
- Resin Rich Surface Helps to Resist Bacterial Growth
- Non-Porous

Special Features

- Meets ASTM C-884 Compatibility with Concrete
- Excellent Adhesion to Clean, Sound, Damp Concrete
- Excellent Adhesion to 24 Hour Old Concrete by Priming with Corro-Cure
- Special Adhesion Promoters
- Built in Resiliency for Thermal Shock (Steam Cleaning) and Impact 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 Ratios
- Same Chemical Resistance Resins Throughout

Application

- Monolithic Floor- Use in Clean Rooms with Little or No Texture
- ¼" Application for Heavy Traffic
- 1/8" for Hand Cart and Foot Traffic
- Can be Installed over Well Bonded Tile
- Excellent for C.I.P. Areas, Pharmaceutical and Food Plants

Packaging

Corro Hi-Flor SL is available in the following pak sizes:

Standard Pak (4 Gallons – 50 SF @ 1/8" Thick)

Ten Pak (40 Gallons – 500 SF @ 1/8" Thick)

Coverage will vary depending on surface texture.

Priming

Corro Hi-Flor SL 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-Flor SL** is going to be applied over "green" concrete, then our **Corro-Cure** (a slow set primer) must be used first.

Set Times

Corro Hi-Flor SL is available in the following setting times:

Corro Hi-Flor SL for normal ambient temperature.

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

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

Mixing and Application

Detailed mixing and application instructions 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-Flor SL 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: 10.6

Part B: 8.6 .

Mixed A & B: 9.92

A,B & Fill: 14

Viscosity: Pourable

Mixing Ratio by Volume

Part A:Part B – 2: 1

A & B Mixed: Corro-Fill: 1:1

Theoretical Coverage

4 Gallon Pak – 50 SF @ 1/8”

Set Times (Slab Temperature)	50°F.	73°F.	90°F.
Pot Life	1 Hour	45 Minutes	25 Minutes
Recoat Time	18 Hours	15 Hours	12 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

ASTM	TEST METHOD	Liquids Only	Filled System
C579	Compressive Strength		6592 psi
C579	Percent Compressive Resiliency		24%
	Ratio of Force to % Resiliency		274:1
C579	Compressive Strength @ Yield		3142 psi
C579	Percent Compressive Resiliency @ Yield		6%
D695	Compressive Strength	7250 psi	
D695	Percent Compressive Resiliency	44%	
	Ratio of Force to % Resiliency	165:1	
D695	Compressive Strength @ Yield	3417 psi	
D695	Percent Compressive Resiliency @ Yield	10.73%	
C580	Flexural Strength		3307 psi
C580	Flexural Modulus of Elasticity		1,35 x 10 ⁶
D790	Flexural Strength	4640 psi	
D790	Flexural Modulus of Elasticity	1,76 x 10 ⁵	
C307	Tensile Strength		1854 psi
C307	Percent Tensile Elongation		13%
	Ratio of Tensile Stress to % Elongation		143:1
D638	Tensile Strength	1707 psi	
D638	Percent Tensile Elongation	15%	
	Ratio of Tensile Stress to % Elongation	114:1	
C321	Bond Strength to Concrete		Failure in Concrete
D4541	Bond Strength to Concrete	Failure in Concrete	
C884	Thermal Compatibility to Concrete	No Delamination	No Delamination
C413	Absorption Filled		Less Than .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.