

Corro-Shield International, Inc.

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PRODUCT DATA SHEET (Rev. 11/01)

CORRO HI-FLOR (Ref. No. 201)

Product Description

- Corro Hi-Flor is Formulated With a Blend of 100% Solids Bis F and Novolac Resins, Supplied as a 3 Part Epoxy Trowellable System Consisting of:
Part A – Resin
Part B – Hardener
Part C – Blended Granite or Quartz Aggregate (Corro-Fill), plus Tint
- Self-Priming, Resin-Rich – No Sealer Topcoat Needed
- Low Odor/Solvent Free
- V.O.C. Compliant
- Blended Mix for Coves
- Dense Compact Finish
- Hygienic, Easy to Clean Surface
- Resin Rich Surface Helps to Resist Bacterial and Fungi Growth

Special Features

- Meets ASTM C-884
Thermal Compatibility with Concrete
- Excellent Adhesion to Clean, Sound, Damp Concrete
- Excellent Adhesion to 24 Hour Old Concrete by Priming with **Corro-Cure**
- Resistant to Many Acids, Solvents and Cleaning Solutions, including 98% Sulfuric Acid. (Refer to Chemical Resistance Chart)
- Built in Resiliency for Thermal Shock (Steam Cleaning) and Impact Resistance
- Can be Used Indoors or Outdoors
- User Friendly Mix Ratios
- Power Trowellable
- Water Wipeable

Application

- Monolithic Floor for Heavy Traffic
- Repairing of Highly Eroded Concrete Floors
- Where Good Chemical Resistance is Required
- Excellent Abrasion Resistance
- Textured Finish
- Excellent for C.I.P. Areas

Packaging

Corro Hi-Flor is available in the following pak sizes:
Standard Pak -Pre-measured 4 Gallon Pak – 25 SF @ ¼”
Ten Pak -10 x 4 Gallon Pre-measured Paks – 250 SF @ ¼”
48 Bulk Pak -192 Gallons in Bulk – 1200 SF @ ¼”
Drum Pak -532 Gallons in Bulk – 3325 SF @ ¼”

Coverage will vary depending on surface texture.

Priming

Corro Hi-Flor 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-Flor** 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-Flor is available in the following setting times.

Corro Hi-Flor - At ambient or higher temperatures.

Corro Hi-Flor 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-Flor 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: 9.79

Part B: 8.85

Mixed A & B: 9.48

Mixing Ratio by Volume

Part A:Part B – 2:1

A & B Mixed:Corro-Fill: 1:3

Theoretical Coverage

4 Gallon Pak – 25 SF @ ¼”

| 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 |
| 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 | | 6767 psi |
| C579 | Percent Compressive Resiliency | | 7.6% |
| | Ratio of Force to % Resiliency | | 890:1 |
| C579 | Compressive Strength @ Yield | | 3175 psi |
| C579 | Percent Compressive Resiliency @ Yield | | 2.2% |
| 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 | | 4601 psi |
| C580 | Flexural Modulus of Elasticity | | 1,14 x 10 ⁶ |
| D790 | Flexural Strength | 4640 psi | |
| D790 | Flexural Modulus of Elasticity | 1,76 x 10 ⁵ | |
| C307 | Tensile Strength | | 2425 psi |
| C307 | Percent Tensile Elongation | | 5.85% |
| | Ratio of Tensile Stress to % Elongation | | 414:1 |
| 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.