



CORRO-SHIELD
SUPERIOR PERFORMANCE COATINGS

CORRO-SHIELD Industrial Flooring and Walls

www.corroshield.com

Product Data Sheet (Rev. 09/16)

CORRO HI-FLOR TR and CORRO HI_FLOR TR FAST SET (Ref. No. 201 and 201FS)

Product Description

- 3-Part, 100%/Total Solids Epoxy Coating System
Consisting of:
 - Part A – Pigmented Resin
 - Part B – Hardener
 - Part C – Blended Granite or Quartz Aggregate (Corro-Fill), plus Tint
- V.O.C. Compliant/Low Odor/Solvent Free (VOC Content: 62.41 g/L per ASTM D-2369-01)
- U.S.D.A. and C.F.I.A. Compliant
- Self-Priming, Resin-Rich – No Sealer Topcoat Required (Topcoat Helps Lock In Aggregate and Help in Aesthetics)
- Blended Mix For Coves
- Dense Compact Finish/ Non-Porous
- Easy to Clean Hygienic Surface
- Resin Rich Surface Helps to Resist Bacterial Growth
- User Friendly Mix Ratio of 2:1 by Volume Plus Aggregate
- Textured Finish
- Can be Used Indoors or Outdoors

Special Attributes

- Meets ASTM C-884
Thermal Compatibility with Concrete
- Same Chemical Resistant Resins Throughout
- Excellent Adhesion to Clean, Sound, Damp Concrete
- Built in Resiliency for Thermal Shock and Impact Resistance
- Excellent Abrasion Resistance
- High Chemical Resistance - Resistant to Many Acids, Solvents and Cleaning Solutions. (Refer to Chemical Resistance Chart)
- Power Trowel
- Water Wipe up
- Hygienic, Easy to Clean Surface

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.

Common Uses

- Monolithic Floor for Heavy Traffic
- Repairing of Highly Eroded Concrete Floors
- Where Good Chemical Resistance is Required
- Excellent Abrasion Resistance
- Excellent for Food and Pharmaceutical Plants
- Excellent for C.I.P. Areas
- Containment Areas
- Battery Charging and Manufacturing Areas

Packaging

Corro Hi-Flor is available in the following pre-measured 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 self-priming and does not need a primer on sound concrete; however, to help reduce outgassing, blistering and dry spots we recommend first priming with:

Dry Concrete - Corro Penetrating-Cote (Ref. No. 106) or Corro Penetrating-Seal (Ref. No. 108)

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 LV FS (Ref. No. 602)

Setting Times

Corro Hi-Flor is available in either regular or fast set versions:
Corro-Flor Regular Set – For temperatures 50°F/10°C and higher

Corro-Flor FS (Fast Set) - For temperatures as low as 35°F/2°C

See Set Time Chart on back page for various setting times.

Mixing and Application

DO NOT MIX BY HAND

- Can be Power Troweled **using a light electric power troweled machine**
- **We highly recommend** to use our own fillers for ultimate results

Detailed mixing and application instructions are available upon request.

Corro-Shield Industries Inc./ Corro-Shield International Inc.

4-115 First Street, Suite 532, Collingwood, Ontario, L9Y 4W3•T: 1-888-780-3229, F: 844-930-0248
2575 United Lane, Elk Grove Village, IL, 60007•T: 1-800-298-7637, F: 847-298-7798

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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 – 2:1
A & B Mixed:Corro-Fill: 1:3

Mixing Ratio by Weight

Part A: Part B – 2.25:1

Technical Assistance

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

SET TIMES						
Set Times	35 °F/2 °C	50 °F/10 °C		73 °F/23 °C		90°F/32 °C
Product	Fast Set	Regular	Fast Set	Regular	Fast Set	Regular
Pot Life	1 Hour	1 Hour	40 Minutes	45 Minutes	20 Minutes	25 Minutes
Recoat Time	18 Hours	18 Hours	12 Hours	15 Hours	6 Hours	12 Hours
Foot Traffic	18 Hours	18 Hours	12 Hours	15 Hours	4 Hours	24 Hours
Forklift Traffic	72 Hours	72 Hours	36 Hours	48 Hours	24 Hours	24 Hours
Full Chemical Resistance*	9 Days	9 Days	9 Days	7 Days	7 Days	7 Days

* Refer to Chemical Resistance Chart

ASTM TEST RESULTS			
ASTM	TEST METHOD @ 73°F/23 °C	Results – Liquids Only	Results – Fill System
C579	Compressive Strength		6767 psi
C579	Percent Compressive Resiliency		7.6%
	<small>Ratio of Force to % Resiliency</small>		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%	
	<small>Ratio of Force to % Resiliency</small>	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%
	<small>Ratio of Tensile Stress to % Elongation</small>		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.

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