



CORRO-SHIELD
SUPERIOR PERFORMANCE COATINGS

CORRO-SHIELD
Industrial Flooring and Walls

www.corroshield.com

Product Data Sheet (Rev. 09/16)

Corro Hi-Grout and Corro Hi-Grout FS (Fast Set) (Ref. No. 401/401FS)

Product Description

- Unique 100%/Total Solids Epoxy System for Bedding and Grouting
- Supplied in Either Bricklayers or Tilesetters Grout
- Grouting for Acid Brick or Tile to Floors and Walls
- Supplied With Clear Resin and Colored Aggregate
- Self-Priming, Resin-Rich
- Bedding and Grout have Same Chemical Resistance
- Resin Rich Surface Helps Resist Bacterial Growth
- U.S.D.A. and C.F.I.A. Compliant
- V.O.C. Compliant/Low Odor/Solvent Free

Special Attributes

- Meets ASTM C-884 (Thermal Compatibility with Concrete)
- Excellent Adhesion to Clean, Sound, Damp Concrete
- Excellent Adhesion to Brick and Tile
- Color Stable Grout
- Resilient to Compensate for Tile “Creep”
- Holds its Peak When Applied With a Notched Trowel
- Excellent Adhesion to 24 Hour Old Concrete by First Priming with **Corro-Cure (Ref. no.602)**
- Excellent Chemical Resistance
- Resistant to Many Acids, Solvents and Cleaning Solutions. Including 98% Sulfuric Acid (Refer to Chemical Resistance Chart)
- For Grouting to Walls, add Corro-Thickener
- Built in Resiliency for Thermal Shock (Steam Cleaning) and Impact Resistance
- Can be Used Indoors or Outdoors
- Water Wipeable
- Hygienic, Easy to Clean Surface

Colors

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

Common Uses

- | | |
|-------------------------------------|-----------------------|
| Breweries | Beverage Industry |
| Meat Packing and Poultry Plants | Dairies |
| Food Processing Plants | Bakeries |
| Chemical Plants | Pharmaceutical Plants |
| Distribution Centers and Warehouses | |

Set Times

Corro Hi-Grout is available in either regular or fast set versions:

Corro Hi-Grout Regular Set – For Temperatures 60°F/16°C and higher

Corro Hi-Grout FS (Fast Set) – For Temperatures as low as 35°F/2°C

See Set Time Chart on back page for details.

Packaging

Corro Hi-Grout and Corro Hi-Grout Fast Set are available in the following pre-measured pak sizes:

- 1 Gallon Pak
- Standard Pak – 3 Gallon Pak
- Ten Pak – 30 Gallon Paks (10 x 3 gallon paks)
- Bulk Pak 80 Gallon Bulk Pak

Coverage

Approximate Coverage Per Gallon for Jointing for Brick or Tile		
Brick/Tile Size	Joint Width	Square Foot Coverage
4" x 8" x 1/2"	1/8"	70
	1/4"	35
4" x 8" x 1 3/8"	1/8"	25
	1/4"	12.5
Approximate Coverage Per Gallon for Bedding		
Bedding Size	Square Foot Coverage	
1/8" Thick	12.8	
1/4" Thick	6.4	

Coverage will vary depending on surface texture.

Fillers

Corro Hi-Grout is available with the following fillers:

- Bricklayers or Tile-setters Filler **Ref. No. 401**
- Bedding Filler **Ref. No. 401BG**

Please specify the required filler when placing the order.

Mixing and Application

DO NOT MIX BY HAND

Use a notched trowel when applying as a bedding compound. Detailed mixing and application instructions are available upon request.

Priming

Corro Hi-Grout 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)

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Brick & Tile Grout System

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Clean Up

Corro Hi-Grout 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.

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 their respective safety data sheets

Mixing Ratio By Volume

Part A: Part B: 2:1 A & B Mixed: Corro-Fill: 1:1.7

Mixing Ratio By Weight

Part A: Part B: 2.22: 1 A & B Mixed: Corro-Fill 1:3

Technical Assistance

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

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

*Refer to Chemical Resistance Chart

ASTM TESTING			
ASTM	TEST METHOD	Liquids Only	Filled System
C579	Compressive Strength		4683 psi
C579	Compressive Resiliency		7.7%
	Ratio of Force to % Resiliency		608:1
C579	Compressive Strength @ Yield		2250 psi
C579	Compressive Resiliency @ Yield		2%
D695	Compressive Strength	7250 psi	
D695	Compressive Resiliency	44%	
	Ratio of Force to % Resiliency	165:1	
D695	Compressive Strength @ Yield	3417 psi	
D695	Compressive Resiliency @ Yield	10.75%	
C580	Flexural Strength		3713 psi
C580	Flexural Modulus of Elasticity		5.02 x 10 ⁵
D790	Flexural Strength	4640 psi	
D790	Flexural Modulus of Elasticity	1.76 x 10 ⁵	
C307	Tensile Strength		1933 psi
C307	Tensile Elongation		9.94%
	Ratio of Stress to % Elongation		194:1
D638	Tensile Strength	1740 psi	
D638	Tensile Elongation	14.5%	
	Ratio of Stress to % Elongation	120:1	
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	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 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.