



CORRO-SHIELD  
SUPERIOR PERFORMANCE COATINGS

**CORRO-SHIELD**  
*Industrial Flooring and Walls*

[www.corroshield.com](http://www.corroshield.com)

**Product Data Sheet (Rev. 09/16)**

**Corro Poly-Gel 45 and Corro Poly-Gel 45 FS (Fast Set) (Ref. No. 520/520FS)**

**Product Description**

- 2 Part 100%/Total Solids Epoxy Gel/Mastic Consisting of the Following:  
Part A – Resin  
Part B – Hardener
- Can Be Applied Up to 1/4” Thick in One Application
- Non-Slump
- Use Vertical or Overhead Areas
- Creamy Consistency, once Mixed
- 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 (49.11 g/L per ASTM D-2369-01)

**Special Attributes**

- Good Chemical Resistance (See Chemical Resistance Chart)
- Built in Resiliency for Thermal Shock (Steam Cleaning) and Impact Resistance
- Meets ASTM C-884 (Thermal Compatibility with Concrete)
- Fills Holes in Walls Up To 3” Without Sagging
- Special Adhesion Promoters
- Excellent Adhesion to Clean, Sound, Damp Concrete
- No Heavy or Porous Fillers
- Easily Sanded
- Does Not Sag in Saw Cuts
- Water Wipe-up
- User Friendly Mixing Ratios
- Can be Applied Indoors or Outdoors

**Common Uses**

- Fill Cracks and Holes Before Coating
- Fill or Level Saw Cuts/Construction Joints
- Level Sumps and Trenches
- Anchoring Bolts
- Fills Deteriorated/Damaged Areas, Such as Columns and Walls
- Fills Wall to Wall, Ceiling to Wall, and Internal Corners in One Pass (Can Create 2” Radius)
- Heavy Duty Protection for Vertical or Overhead Areas
- Smoothes Out Pitted Walls
- Easily Fills Holes up to 1/4” Deep (For Deeper Holes, First use **Corro Poly-Gel -Ref. No. 502**)
- For Minor Moving Cracks, use **Corro Elast-O-Gel (Ref. No. 511)**
- Protection to Trenches, Pits, Sumps, Manholes and Concrete Pipes
- Great for Filling Concrete Block

**Colors**

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

**Set Times**

Corro Poly-Gel is available in either regular or fast set versions:

**Corro Poly-Gel 45 Regular Set** – For Temperatures 60°F/16°C and higher

**Corro Poly-Gel 45 FS (Fast Set)** – For Temperatures as low as 35°F/2°C

**See Set Time Chart on back page for details.**

**Packaging**

**Corro Poly-Gel 45 and Corro Poly-Gel 45 Fast Set** are available in the following pre-measured pak sizes:

- 1 Quart Pak
- 1/2 Gallon Pak
- 1 Gallon Pak

**Coverage**

1 Gallon coverage

- Joint – 1/4” covers 300 Linear Feet
- Cracks 1/8”x1/8” covers 600 Linear Feet
- Cove - 3” x 1” deep covers 16 Linear Feet

**Coverage will vary depending on surface texture.**

**Mixing and Application**

**DO NOT MIX BY HAND**

Apply with a Putty Knife or Trowel. Can be applied at 1/4” thick in one application. Can be smoothed out with a pint roller moistened with water. Detailed mixing and application instructions are available upon request.

**Priming**

**Corro Poly-Gel 45** 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)**

**Clean Up**

**Corro Poly-Gel 45** 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.

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

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2575 United Lane, Elk Grove Village, IL, 60007•T: 1-800-298-7637, F: 847-298-7798

**Mixing Ratio By Volume**

Regular Set: 1:1 Part A: Part B  
 Fast Set: 1.50:1 Part A: Part B

**Mixing Ratio By Weight**

Regular Set: 1.30:1 Part A to Part B  
 Fast Set: 2.46:1 Part A to Part B

**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)	35° F/2° C	73° F/23° C		90° F/32° C
Product	Fast Set	Fast Set	Regular	Regular
Pot Life (Minutes)	40 Minutes	20 Minutes	45 Minutes	25 Minutes
Recoat Time - Floors	12 Hours	4 Hours	15 Hours	12 Hours
Recoat Time - Walls	12 Hours	4 Hours	15 Hours	12 Hours
Foot Traffic	12 Hours	4 Hours	15 Hours	12 Hours
Forklift Traffic	36 Hours	24 Hours	48 Hours	24 Hours
Full Chemical Resistance*	9 Days	7 Days	7 Days	7 Days

\*Refer to Chemical Resistance Chart

**Chemical Resistance (21 days immersion) 73°F**

<u>Chemical</u>		<u>Rating</u>	<u>Chemical</u>		<u>Rating</u>
Acetic Acid	20%	OS	Nitric Acid	10%	FS
	Glacial	NR		30%	OS
Acetone		NR		50%	NR
Ammonium Hydroxide		FS	Oleic Acid		FS
Aniline		NR	Palm Kernel Oil		FS
Animal Fats		FS	Phosphoric Acid	30%	OS
Beer		FS		50%	NR
Chlorine Water	30%	FS		85%	NR
Chloroform		NR	Picric Acid		FS
Citric Acid	50%	FS	Salt Brine Solution		FS
Ethyl Acetate		NR	Sodium Hydroxide	30%	FS
HCL -	10%	FS		50%	FS
	conc. (37%)	FS	Sodium Hypochlorite	5%	FS
Hydrogen Peroxide	10%	FS		10%	OS
	30%	FS		15%	NR
Hydrogen Sulfide		FS	Sulfuric Acid	10%	FS
Lactic Acid	20%	OS		50%	OS
	50%	NR		80%	NR
	88%	NR		98%	NR
Methanol		FS	Tannic Acid	50%	FS
Methylene Chloride		NR	Toluene		FS
MEK		NR	Xylene		FS

Note: The table should be used as a guideline, as no warranty can be expressed or implied regarding the accuracy of the information given as it would apply to actual plant use. Certain chemicals will discolor the grout, however, this will in no way affect the integrity of the system.

Code: FS - Frequent Spillage  
 OS - Occasional Spillage  
 NR - Not Recommended

**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 numerous 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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