

## FGI – 305

### Unique Coatings – Extreme Results

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FGI-305 was developed in 1960 as a simplified, permanent finish for swimming pools of gunite, concrete block, or cast concrete side walls and floors. FGI-305 is a high solids content decorative and protective epoxy coating especially developed for swimming pools which after all the years on the market is unsurpassed in performance. Outdoor durability and color stability is excellent. FGI-305 is extremely Weather, UV, Chemical, Salt, and Abrasion resistant providing for an unsurpassed durable wear surface with superior adhesion properties that promotes a nearly indestructible coating surface. FGI-305 is twice as resistant to abrasion as concrete. This information was secured by rotating a diamond faced tool over FGI-305 and concrete surfaces and comparing the number of revolutions required to grind through three mils (.003) of material. It required twice as many revolutions to penetrate FGI-305 as it did concrete. Also for use in tunnels, concrete tanks, silos, elevators, etc. interior or exterior.

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### Application

FGI - 305 may be applied by brush, roller, or spray. Application is best, when rolled or sprayed at a rate of 75 sq. ft. per gallon. Allow the first coat to dry 4 to 6 hours and apply the second coat the same as the first, being sure to coat everything the second time. This will produce a 16 mil film that will last approximately 10 years before overcoating may become desirable.

Service life is dependent upon the amount of use/abuse the coating is subjected to. Surfaces should be free of loose paint, grease, oil and of any other film-forming foreign material. Sand blasting is quick, relatively inexpensive and convenient. If this method is impractical, acidizing with a 10% solution Muriatic (1 acid, 2 water) acid is the next best thing to provide a clean surface suitable to receive the coating. Hard finished concrete should be etched to provide "tooth" for adhesion. To acidize, flush the surface liberally with solution of Muriatic Acid and water; let "injest" for about twenty minutes or until bubbling stops, then flush liberally with clear water to remove the acid solution and loose residue form the surface. Prior to acidizing, surfaces must be free of grease, oil, crud, and other contaminates. Metals must be free of mill scale, rust, etc. Wood must be free of old paint, varnish, etc. Optimum results are obtained if the surface is dry although entirely satisfactory protection is obtained if the surface is damp and/or wet. Surplus water should be removed to prevent excessive bubbling of the coating. FGI-305 can even be applied with a roller under water. MIXING: After preparation is complete, pot life is in excess of 4 hours at 80 degrees F, so speed is not necessary. Thoroughly mix activator (part "A") with base (part "B") for 5 minutes with a power mixer until all streaks and/or lumps disappear and the mixture has uniform color and consistency. Be sure to allow mixing blade to rub on sides and bottom of container to recombine any settling. Allow to stand (or ingest) for at least 20 minutes before applications. Use of thinner increases possibility of sag and reduces dry film thickness. For best results, use just as it comes from the can.

Any overspray and equipment must be cleaned immediately with acetone, toluene, xylene, or MEK.

FGI-305 is 75% solids. Drying time: 4 to 6 hours at 80 F, Complete Cure: 5 to 7 days at 80 F. Apply in two coats, a total of 21 mils (0.021 inches) wet to achieve a final dry mil thickness of 16 mils (0.016 inches). FGI-305 will cover approximately 75 square feet per gallon at 16 mils thickness. Use in well ventilated area; if not possible, use a NIOSH approved self contained

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breathing apparatus or vapor filters on a mask. Protective gloves and safety glasses must be worn at all times. Only very high abrasion will remove the coating. Caution: With the extreme adhesion characteristics of this product all safety procedures must be followed. Customers should consult FGI on all special requirement installations.

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## Description

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### Features & Benefits

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- **Easy to Apply by Brush, Roller, or Spray on Dry or Wet substrates**
- **UV, Weather, Chemical, Salt and Abrasion Resistant**
- **Extreme Adhesion to Substrate, adhering to almost any clean surface including: plaster concrete, cinder block, brick, stone, glass, fiberglass, wood or metal.**
- **Extremely Durable Wear Surface**
- **No Top-Coat necessary**
- **Contains No Zinc, Lead or Chromates**
- **Typical Applications: Decorative Anti-Corrosive Coating for Swimming Pools, walls, floors, stairs and equipment of residential or commercial pools. Also tunnels, concrete tanks, silos, elevators, etc. interior or exterior tanks, walls and ceilings of subways.**

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### Storage Stability & Shelf Life

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The shelf life of FGI-305 is one year when stored in original, unopened container. Store cans in a well ventilated and covered area away from extreme heat and moisture. Please contact your FGI representative if you have any questions about product usability.

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**Additional information is available at [www.fginternational.net](http://www.fginternational.net)**

Health, safety and environmental information are provided for this product in the Materials Safety Data Sheet. This gives details of potential hazards, precautions and First Aid measures, together with environmental effects and disposal of used products. Before using the product other than directed, please contact FGI for consultation.

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