

FGI – 405

Extreme Duty

Unique Coatings – Extreme Results

Description

FGI - 405 is an extremely unique ultimate performance concrete protection coating developed over 25 years ago and has yet to be equaled in performance. A high solids content epoxy coating especially developed for masonry surfaces. **FGI-405** is twice as resistant to abrasion as concrete. When concrete floors are poured, most of the excess water exits the slab through the top. This always produces a weak surface due to the high water to cement ratio present on the top of the slab. Furthermore, any bubbles in the concrete work to the top, but are often unable to break free, and thus remain just under the concrete surface. The **FGI -405** is not a fast-drying coating, for the above very good reason. The **FGI - 405** effectively stops water from coming through the slab. It adheres to the concrete stronger than the concrete, it is virtually impossible to pass water through the coating in either direction. **FGI - 405** is designed for adhering to concrete, terrazzo, cinder block, brick, stone, glass, transite, wood, metal or asphalt. In addition to being extremely abrasion resistant it finishes to a beautiful decorative surface for walls, floors, patios, stairs, ceilings and equipment of industrial, commercial, institutional, and residential buildings. Also the interior or exterior of tunnels, concrete tanks, silos, elevators, airplane hangers, garage floors etc. Outdoor durability and color stability is excellent. **FGI-405** 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 - 405** saves time and labor and reduces the TOTAL cost of your project

Application Methods

FGI - 405 may be applied by brush, roller or spray. Hard finish concrete surfaces should be acid etched to provide “tooth” for adhesion. Apply Muriatic acid at the rate of one gallon of acid and 2 gallons of water per 100 sq ft. Suggestion: apply with a 3 gallon garden hand sprayer, then broom with plastic bristle to spread out mixture, absolutely do not let dry, let set for a few minutes, then flush with water hose. Surfaces must be free of grease, oil and other contaminants before acid etching. Metal must be free of mill scale, rust, etc. and thoroughly clean off all debris, dirt, and other contaminants. 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.

MIXING: Thoroughly mix (3 to 1 ratio) the base (part "B") with the activator (part "A") for 10 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 30 minutes before application. Use of thinner increases possibility of sag, reduces dry film thickness and retards cure time. 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-405 is 75% solids. Pot Life: 4 to 6 hours at 80 F. Drying time 6 hours at 80 F. Curing time: 36 hours at 80 F, Complete cure: 7 days at 80 F. Apply in two coats, for a final dry film thickness

of 12 mils. Apply 8.0 mils (.008 inches or 0.203 mm) wet to achieve a final dry mil thickness of 6 mils (0.006 inches or 0.152 mm) per coat. **FGI-405** will cover approximately 200 square feet (18.6 square meters) per gallon at 6 mils (0.101 mm) dry thickness. Do not apply thicker than 8 wet mils per coat, 150 sq ft per gallon per coat. For thicker than 12 dry mils apply necessary number of coats.

Use in well ventilated area; if not possible, use a NIOSH approved self contained 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.

Features & Benefits

- **Easy to Apply by Brush, Roller, or Spray on Dry or Wet substrates**
- **UV, Weather, Chemical, Salt and Abrasion Resistant**
- **Extreme Adhesion to Substrate**
- **Extremely Durable Wear Surface**
- **No Top-Coat necessary**
- **Contains No Zinc, Lead or Chromates**
- **Typical Applications: Concrete floors and walls, decks, stairs, steps, patios, ceilings and equipment of industrial, commercial, institutional, and residential buildings. Also the interior or exterior of tunnels, concrete tanks, silos, elevators, airplane hangers, garage floors etc.**

Storage Stability & Shelf Life

The shelf life of **FGI – 405** 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.

The information contained in this bulletin we believe to be correct to the best of our knowledge and testing. We recommend that you make adequate tests in your laboratory or plant to determine if this product meets all your requirements.

Additional information is available at 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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