

# FGI – 375 Clear Ceramic Coating

Unique Coatings – Extreme Results

## Description

FGI – 375 is an extremely unique ultimate performance Clear Ceramic Coating in a construction, industrial grade mar-resistant satin (low-sheen) clear thin-film coating designed as a top or finish coating with excellent adhesion to ferrous and non-ferrous metals, plastics, paints, and powder coated substrates. This coating resists solvents, fuels, paints, and reduces cleanup on surfaces and was also formulated to act as anti-graffiti and/or release coating on buildings, walls, and highway signs, etc.

FGI-375 out-performs other construction, industrial grade mar-resistant clear coatings while being applied at only up to 2.0 mils. The thin film disposition of the material eliminates the need for masking of close tolerance fittings.

FGI-375 is designed for ease of application, extreme performance, and durability in a single component, ambient cure system.

## Features & Benefits

- UV, Weather, Chemical, Salt and Abrasion Resistant
- Extreme Adhesion to Substrate
- Extremely Durable Wear Surface
- No Top-Coat necessary
- Mildew prevention
- Non- toxic, NO VOC's
- Uses: Ship Hull and propeller, Fuel, Hydraulic Tanks; Construction equipment, Frames, undercarriages, dump truck beds, anti-graffiti, etc.
- Provides Ships Increased Performance, reduce drag, reduce maintenance, anti-cavitation, anti-fouling protection on fiberglass or metal hulls

### FGI-375 Clear Ceramic Coating

Solids by Weight	82% +/- 2%
Viscosity #2 Zahn Cup	12.0 seconds
Film Thickness	1.0 to 2.0 mils
VOC's	0.00 lbs per gallon
UV Accelerated Weathering (ASTM D4587)	3,000 hrs +
Pencil Scratch Hardness (ASTM D3363)	7h (@ 1 mil)
Adhesion Cross-Cut Tape (ASTM D3359)	5B (@ 1 mil)
Heat Stability	400°F

\*All test results based on a full 5 day cure.

### Application Methods

Preparation of substrate is crucial for maximum adhesion and performance of this product. On exceptionally slick or repellent surfaces, we suggest using our FGI Primer, FGI- P48 This primer is formulated to increase adhesion to various substrates and to promote inter-coat adhesion with the Clear Ceramic Coatings.

- 1) Any heavy or loose rust, dirt, scale, other coatings, oils and/or contaminants should be removed from the substrate surface. Remove by means of degreasing, blasting, bristle or wire brush, compressed air, heat or any combination of these processes. Surface rust is acceptable if the scale is thin and tight to the substrate. If abrasive blasting is used, a dry grit material such as aluminum oxide or garnet with 100-120 mesh size or equivalent is recommended.
- 2) For plastics or carbon fiber, the surfaces should be free of oils or other surface contaminants. Contaminants can be removed by wiping down with denatured alcohol or equivalent. Use of a lint free cloth is recommended for this process.
- 3) Product may be sprayed, brushed or rolled on. For brush application use a foam pad or brush, or a soft *natural bristle* brush. For spray application use a HVLP spray gun with or without a pressure pot. PSI can be adjusted for particular application. **Material does not need to be thinned. Use as received.**
- 4) Make sure the product is completely mixed and no solids remain in the bottom of the container. Failure to completely disperse the product will result in poor chemical ratios and product failure.
- 5) Just before coating the substrate, use a high-pressure air nozzle to blow off any dirt, dust, or lint that may have settled on the surface. Wear safety goggles or face shield for your protection.
- 6) For large areas, material can be poured onto a section and spread with a large applicator pad. Small parts can be sprayed for ease of application. Hang parts to be sprayed to allow for best view and application access.  
**Do not touch parts with bare skin as oils may impair adhesion.**
- 7) **Two applications of product are recommended for a 1.0 to 2.0 mil film thickness.** Work from the most difficult surface out to the easiest. This will aid in reducing runs or excessive build up. **Do not overbuild coating.**  
**NOTE:** Always 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. Caution: With the extreme adhesion characteristics of this product all safety procedures must be followed. Be aware of over-spray so it will not land on any item that is not to be coated.
- 8) Parts will be tack free after approximately 35 minutes.
- 9) Parts will be partially cured after 24 hours. Full cure and hardness does not take place until 5 to 6 days after application.
- 10) Finished goods may be shipped after 24 hours.
- 11) Clean tools and equipment with acetone or xylene.

Please contact a **FGI** technician with questions on proper use and/or application.

Consult your MSDS information sheets for proper handling, disposal, and precautions while using this product.

### Storage Stability & Shelf Life

The shelf life of FGI - 375 is 6 months from date of shipment when stored in original, unopened container. Store containers 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](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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