

# SF METALLICS SYSTEM



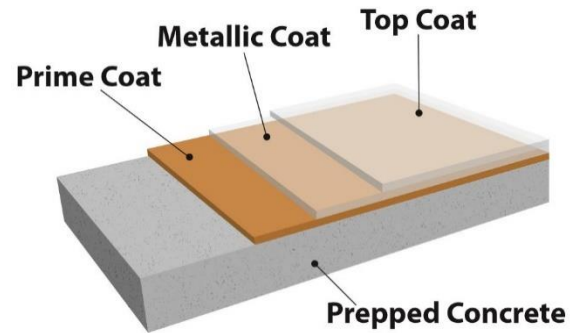
## APPLICATION GUIDE

This document describes the application instructions for applying the SF Metallics system using the following products from South Fork Concrete Coatings.

### REQUIRED PRODUCTS

- SF 100% Solids Epoxy
- SF Metallics Epoxy
- SF Metallics Pigments
- SF Urethane
- SF Epoxy Crack Repair

Coat	Product	ft <sup>2</sup> /gal.	WFT
Prime Coat	100% Solids Epoxy	150 ft <sup>2</sup> /gal.	8 mL
Decorative Epoxy Coat	SF Metallics Epoxy	50 ft <sup>2</sup> /gal.	24 mL
Decorative Epoxy Coat	SF Metallics Pigments	150 ft <sup>2</sup> /bottle	
Top Coat	SF Urethane	500 ft <sup>2</sup> /gal.	3 mL



### CONCRETE ASSESSMENT

**Moisture Content:** A dry concrete slab is required for this system. Testing for moisture should be done with either a Calcium Chloride or a Relative Humidity test. A Calcium Chloride test should have a moisture vapor transmission lower than 3 lbs/1000 ft<sup>2</sup>/24 hours. A Relative Humidity Test should be higher than 75% RH. If the moisture content is lower than either of these two readings use SF Epoxy Primer Water Slow to mitigate the effects of moisture.

**Hardness:** A concrete slab of at least a minor hardness is required for this system. Test the concrete hardness with a Mohs Hardness Kit. The concrete should show a hardness of 3 or higher to properly accept this system.

**Other Conditions:** Concrete must be structurally sound, free from oil, grease, silicones and other contaminants. Green slabs must have cured for at least 28 days prior to coating.

### PREPARATION

**Grinding/Shot Blasting:** Concrete must be ground with a concrete grinder prior to the application of this system. Use 15-50 grit diamonds and achieve a profile of a CSP 2 to a CSP 3. Smooth out any grinder marks prior to system application. Shot Blasting may be used to achieve a profile of a CSP 3. Any marks, irregularities or CSP levels higher than a 2 in the concrete will result in "character marks" in the Decorative coat.

**Vacuum:** Once the grinding is finished vacuum the entire floor to make sure all dust has been removed. Any leftover particles will result in more "character marks".

**Crack Repair:** Repair all cracks using SF Epoxy Crack Repair. Do not cover saw cuts and expansion joints with the crack repair.

## MIXING

Mix the following:

- 2 Parts SF 100% Solids Epoxy A side
- 1 Part SF 100% Solids Epoxy B Side

Mix as many gallons as you will need for the area you are coating at a rate of 150 ft<sup>2</sup>/gal. or a Wet Film Thickness (WFT) of 8 mils. Mix the SF 100% Solids Epoxy A side with the B side. Mix thoroughly for 2 minutes scraping both the bottoms and sides of the container. Use a drill powered paddle mixer and a stir stick.

Mix the following:

- SF Metallics Epoxy A Side
- SF Metallics Pigments
- SF Metallics Epoxy B Side

Mix the SF Metallics Epoxy A Side and the SF Metallics Pigments 24 hours prior to application and let stand. Mix again just prior to application. Mix the SF Metallics Epoxy A side with the B side. Mix thoroughly for 2 minutes scraping both the bottoms and sides of the container. Use a drill powered paddle mixer and a stir stick.

Pro Tip: Strain the mixed A side and the pigment using a paint strainer just prior to mixing with the B side to avoid Rockets.

Mix the following:

- SF Urethane A side
- SF Urethane B Side
- SF Urethane C Side

The SF Urethane comes in 1-gallon kits with 3 components, an A side and a B side that are liquid and a C side that is powder. The kit comes prepackaged and all three components should be mixed together in their entirety and not broken down. Thoroughly mix the A side with the C side and let it stand for 60 minutes, then mix again. Now mix the B side into the mixed A and C sides using a stir stick or slow-moving paddle on a drill for two minutes scraping all sides and bottom of the container. The kit is designed to be mixed in the containers that it came in.

## PRIME COAT

**Ribbon & Squeegee:** Use the "Ribbon & Squeegee" method for the SF 100% Solids Epoxy Prime Coat. Mix enough SF 100% Solids Epoxy so that the entire floor will be covered at 150 ft<sup>2</sup>/gal. or 8 mils. Immediately pour the mixed Epoxy out on the floor in long ribbons. If the Epoxy stays in the bucket for longer than 5 minutes it will start to get hot and set up. **It is very important to get the Epoxy out of the bucket very quickly.** Spread the ribbons using a squeegee so that the floor is entirely and evenly covered.

### Back Roll:

Evenly and carefully back roll the Epoxy that has been squeegeed out. Overlap each back roll being careful not to leave roller marks in the finish.

Use an 18", 3/8" nap, non-shedding roller skin.

**In the case of White and Safety Yellow it will take two prime coats.**

**Let cure until the next day.**

## PREP THE PRIME COAT

This is a very important step in a Metallic floor. Sand the entire floor so that there is a good profile and all of the bumps and bubbles have been leveled out so the floor is even. Now take the SF Epoxy Crack Repair and patch all of the holes and bubbles in the floor. Any places that are missed will leave large pock marks in the decorative coat.

## BUILD/DECORATIVE COAT

**Ribbon & Squeegee:** Use the "Ribbon & Squeegee" method for the SF Metallics Epoxy mixed with the SF Metallics Pigment. Immediately pour the mixed Product out on the floor. Long ribbons, spots, etc. If you are using two or more different colors mix them separately and pour them out onto the prime coat to create the effect you desire. In pouring this out be creative and artistic and don't pour it out evenly. If the SF Metallics Epoxy stays in the bucket for longer than 15 minutes it will start to set up. Spread the ribbons using a squeegee so that the floor is entirely and evenly covered at a rate of 50 Square Feet per Gallon or a Wet Film Thickness of 24 millimeters.

This coat will need 12 plus hours to dry at 70 degrees Fahrenheit. Lower temperatures will result in longer cure times. Do not apply below 45 degrees Fahrenheit. When it is firm to the touch sand this coat evenly to give this coat a profile and remove any imperfections. Vacuum and wipe down with a microfiber cloth when finished. Any imperfections in the prime coat will show up as "character marks" in the decorative coat.

## TOP COAT GLOSSY

Using the SF Urethane apply the top coat. After mixing pour a thin line of the SF Urethane out and roll with an 18", 3/8ths inch nap, lint less roller. You have lots of working time so, roll it out evenly and work it well. Stretch it very far. You should spread it at a rate of 500 to 600 square feet per gallon. Any less will leave shiny spots in the floor.

### **Back Roll:**

Evenly and carefully back roll the product that has been squeegeed out. Overlap each back roll being careful not to leave roller marks in the finish.

Use an 18", 3/8" nap, non-shedding roller skin.

## RECOAT WINDOW

All of the coats in this system must be laid down within 24 hours of the previous coat.

## CLEANUP AND DILUTION

Use Acetone for cleanup and dilution with all of these products.