



# SF CHIP CONCRETE COATING SYSTEM

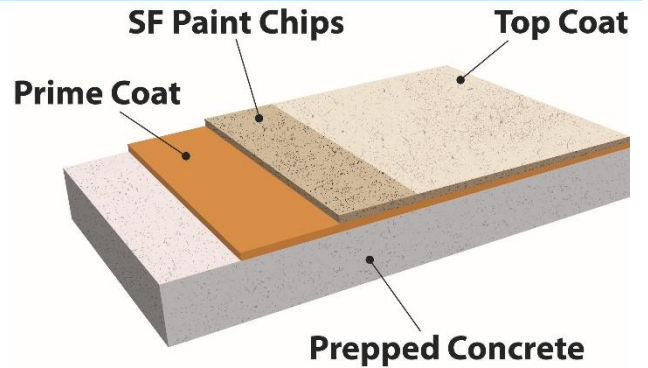
## APPLICATION GUIDE

This document describes the application instructions for applying the SF Chip Concrete Coating System using the following products from South Fork Coatings.

### REQUIRED PRODUCTS

- SF Epoxy Water Chip
- SF Paint Chips
- SF Polyaspartic 80

Coat	Product	ft <sup>2</sup> /gal.	WFT
Prime Coat	SF Epoxy Water Chip	200 ft <sup>2</sup> /gal.	8 mL
Broadcast	SF Chip	200 ft <sup>2</sup> /box	
Top Coat	SF Polyaspartic 80	150 ft <sup>2</sup> /gal.	11



### CONCRETE ASSESMENT

**Moisture Content:** A dry concrete slab is required for this system. Testing for moisture should be done with a Calcium Chloride test. A Calcium Chloride test should have a moisture vapor transmission lower than 9 lbs/1000 ft<sup>2</sup>/24 hours.

**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 a 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 15-40 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.

**Vacuum:** Once the grinding is finished vacuum the entire floor to make sure all dust has been removed.

**Crack Repair:** Repair all cracks prior to application. Do not cover saw cuts and expansion joints with either this system or the crack repair.

### MIXING

#### Mixing Ratios SF Water Chip Epoxy:

- 2 Parts SF Epoxy Water Chip A side
- 1 Part SF Epoxy Water Chip B Side

**Coverage SF Water Chip Epoxy:** Coverage rate for the SF Water Chip epoxy is 200-250 ft<sup>2</sup>/gal or a Wet Film Thickness (WFT) of 8 mL.

**Mixing:** Mix 2 parts SF Epoxy Water Chip A side with 1 part of the B side. Mix thoroughly for 2 minutes using a drill powered mixer. Scrape both the bottoms and sides of the container with a paint stir stick and then mix with drill powered mixer for another 30 seconds. You may use a stir stick or a slow-moving drill powered paddle mixer.

#### Mixing Ratio SF Polyaspartic 80:

- 1 Parts SF Polyaspartic 80 A side
- 1 Part SF Polyaspartic 80 B Side

**Coverage Polyaspartic 80:** Coverage rate for the SF Polyaspartic 80 is 150 ft<sup>2</sup>/gal. or a WFT of 11 mL.

**Mixing:** Mix 1 part of the SF Polyaspartic 80 A side with 1 part of the B side. **Mix 2 gallons or less per batch.** Mix only enough material so that it can be spread in 15 minutes. Mix thoroughly for 2 minutes scraping both the bottoms and sides of the container. Use a paint stir stick to mix the Polyaspartics.

**Equipment:** Buckets, stir sticks, drill powered mixer.

### PRIME COAT

**Mixing:** The Water Chip Epoxy at 2 parts A to 1-part B. Mix 3 gallons or less per batch.

**Quantities:** Lay down the Water Chip epoxy at **200 to 250 square feet per gallon.**

**Ribbon & Squeegee:** Use the "Ribbon & Squeegee" method for the SF Epoxy Water Chip. **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. **The better job you do of making the prime coat even the better finish on your floor.**

**Equipment:** Use a squeegee and a 3/8" nap non shedding roller skin.

### BROADCASTING SF PAINT CHIPS

**Broadcast:** While the Prime coat is still wet broadcast the SF Paint Chips directly onto the wet epoxy. Broadcast at a rate of 200 square feet per box or until you can no longer see shiny spots from the wet epoxy. Do so by throwing them into the air and letting them flutter down to assure an even coat. Do this to refusal or until you can no longer see the shine from the wet products. Let the Prime coat cure. This should take from 1 to 4 hours depending upon the temperature. **Do not apply the epoxy at temperatures lower than 40 degrees.** For most projects apply the basecoat and paint chips on the first day and the top coat on the second day.

**Assessment:** To assess whether or not it is cured place your thumb on top of the paint chips with firm pressure. Then turn your thumb back and forth. If the paint chips do not move it is cured and you may move onto the next step.

**Pickup:** Once the broadcast coat is cured sweep up the paint chips using a **battery powered leaf blower.** Bag and keep the left-over paint chips for the next job making sure to tie the bag shut tight to keep out moisture.

**Equipment:** Use a battery **powered leaf blower.** Outlet powered leaf blowers can lead to **electrocution hazards** from stepping on the cord with spike shoes.

### SCRAPING

**Scraping:** Hold the scraper at about a 30-degree angle and scrape the paint chips in a north/south direction, then an east/west direction and finally at a diagonal. **The better job you do of scraping the better finish on your floor.**

Once the scraping is finished sweep the floor with a leaf blower and then vacuum. Throw the leftovers away as these paint chips are not reusable.

**Equipment:** Use a 14-inch flexible metal floor scrapper, a **battery powered leaf blower** and a vacuum.

## TOPCOAT

**Mixing:** Mix the SF Polyaspartic 80 at 1-part A to 1-part B. Mix 2 gallons or less per batch.

**Dip & Roll:** Use the dip and roll method. Put the mixed SF Polyaspartic 80 into an 18" paint tray.

**Application:** Dip your roller into the paint tray and then roll out approximately 4 square feet of floor space. Then do it again until you have covered the entire floor with a coverage of 150 square feet per gallon or a wet film thickness of 11 mLs. You will have to work hard to get enough Polyaspartics on the floor. Then back roll the entire floor from side to side. Make sure that the coat is even and there are no roller marks, puddles or evidence of an uneven coat.

**Equipment:** Use an 18 inch, 3/8" nap, non-shedding roller skin and an 18" paint tray.

## SECOND TOP COAT

An optional second top coat can be placed over the first top coat. Apply this coat in the same manner as the first top coat except at a rate of 300 square feet per gallon or a wet film thickness of 5.33 millimeters. Do this within 6 hours of putting down the first top coat. After 6 hours sand and wipe the floor down with Acetone.

## 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.



For **SAFETY DATA SHEETS, TECHNICAL DATA SHEETS, APPLICATION GUIDES** and other information please visit:

[sfgaragefloors.com](http://sfgaragefloors.com)