



**CONCRETE  
FLOOR  
SOLUTIONS**

## **METALLIC EPOXY INSTALLATION INSTRUCTIONS**

**\*\*Please read and understand all installation instructions prior to beginning your flooring project.**

### **Preparation:**

It is always recommended to diamond grind the concrete surface prior to installation. Grinding the concrete will help to remove any contaminants from the surface and will provide a good scratch profile guaranteeing the required bond to the substrate.

(Please be aware that contaminants such as oil, which have penetrated into the concrete, in most cases cannot be fully removed and may cause materials to not bond to the surface.)

After the grinding is completed, the surface must be vacuumed to remove all loose dust and debris.

(It is also advised to not wash or rinse the floor with water unless there is additional time allowed for the concrete, joints and cracks to fully dry.)

### **Repairs:**

Repair cracks and spalls using our CFS-Fast Set Epoxy Crack Filler / Spall Repair. After the repairs are completed, grind over the repaired areas to apply a scratch to the surface. This scratch will allow the materials to properly bond to the repaired surface areas.



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## **Mixing The Epoxies:**

It is advised to always mix epoxies in the complete batches as received. Epoxies must always be mixed to the correct ratio as stated on the label. If this step is not followed, you'll risk having the epoxies not fully cure.

To properly mix the epoxies it is advised that you use a slow speed drill with a minimum 3" mixing paddle. During the mixing process, and with the drill on slow speed, move the mixing paddle around the edges of the bucket to ensure that all of the material gets mixed properly. Mixing time is +/- 2 minutes with a mixing paddle to insure proper mix.

It is critical to review and understand the **POT LIFE / CURE SCHEDULE** prior to mixing and working with any of these materials. Most epoxies cannot be mixed and left in the bucket for any length of time.

**(READ EACH MATERIALS TECHNICAL DATA AND SAFETY DATA SHEETS PRIOR TO INSTALLATION)**

## **Installation:**

A critical step when applying epoxies is to ensure the proper coverage rates are followed. This is especially important when utilizing multiple flooring kits on larger flooring projects. It is advised that a mark/note is made, prior to installation, to show how much floor each mix should cover. This will ensure the epoxy is being put down at the correct rate.

### **(1) Epoxy Primer Application (CFS-Low Viscosity Primer):**

Primers are designed to penetrate into the surface of the concrete. This step will create a bonded surface which will allow for the proper application of the metallic epoxy coat.



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It is recommended to wear spiked shoes during the application steps. Spike shoes will allow the installer(s) to work the entire area of the floor where the epoxy has been poured, squeegeed or back rolled. Always take caution when wearing and walking in spike shoes. Do not drag spikes while walking as this may leave marks in the finished floor.

Begin by pouring the properly mixed epoxy primer across the floor in 4"-6" wide ribbons. The ribbons should be poured paralleled to each other leaving approximately three feet between each ribbon pour. You have approximately 20 minutes before the epoxy will begin to set in the bucket. The working time is extended once the mixed material is poured onto the floor.

Next, using a squeegee, push the epoxy primer puddle while moving parallel with the ribbon pour to uniformly covering the floor. A 6" roller and 2" brush can be used to address edges and corners.

Finally, back roll the epoxy primer perpendicular to the direction it was squeegeed. It is recommended to use a 1/4" nap 18" "Epoxy Glide" roller cover.

Allow material to harden +/- 16 hours but not more than 30 hours before applying the next coat.

## **(2) Pigment / Build Coat Application (CFS-Clear Metallic Epoxy):**

It is recommended to wear spiked shoes during the application steps. Spike shoes will allow the installer(s) to work the entire area of the floor where the epoxy has been poured, squeegeed or back rolled. Always take caution when wearing and walking in spike shoes. Do not drag spikes while walking as this may leave marks in the finished floor.

Begin by pouring the properly mixed metallic epoxy across the floor in



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8"-12" wide ribbons. The ribbons should be poured paralleled to each other leaving approximately two feet between each ribbon pour. You have approximately 20 minutes before the epoxy will begin to set in the bucket. The working time is extended once the mixed material is poured onto the floor.

(This needs to be a heavy coat and be applied at approximately 100 sq. ft per gallon.)

Next, using a squeegee, very gently push the epoxy top coat puddle while moving parallel with the ribbon pour to uniformly covering the floor. Please remember, this needs to be a heavy coat. DO NOT add down pressure to the squeegee. A 6" roller and 2" brush can be used to address edges and corners.

Additional accent colors can be added at this step. Pour properly mixed accent color metallic epoxy on the floor in the desired pattern. Next, use a squeegee to very gently push the accent color metallic epoxy to achieve the desired look. Please remember, this needs to be a heavy coat. DO NOT add down pressure to the squeegee.

Finally, lightly back roll the metallic epoxy perpendicular to the direction it was squeegeed. It is recommended to use a 1/4" nap 18" "Epoxy Glide" roller cover. Allow to cure at least 24-hours before applying topcoat.

### **(3) Optional Urethane Top Coat (CFS-High Performance Urethane):**

To help prevent scratching, it is highly recommended that a urethane topcoat is applied on top of the metallic coating.

Begin by lightly sanding the metallic epoxy coating to remove any visible defects and prepare the surface before applying urethane topcoat. A light scratch from a +/- 220 grit pad should be sufficient. This step can be completed using a walk behind sander or a drywall sander on a pole.



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Pour the properly mixed urethane into a watering can. Next, pour approximately 3" wide parallel stripes across the floor approximately 16" apart. Back roll the urethane topcoat perpendicular to the direction it was poured on the floor. It is recommended to use a ¼" nap 18" "Epoxy Glide" roller cover.

These materials are designed to go down thin at approximately +/- 400 sq.ft. per gallon. A second coat can be applied if a heavy topcoat is desired. Allow 72-hour cure time before opening up to traffic.