



**CONCRETE  
FLOOR  
SOLUTIONS**

## **CFS-CTR SERIES MVB EPOXY FLAKE FLOOR INSTALLATION INSTRUCTIONS**

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

### **Preparation:**

We always recommend diamond grinding 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.

### **Mixing The Epoxies:**

It is advised to always mix epoxies in the complete batches as received.

Epoxies and pigments must always be mixed to the correct ratio as stated on the label. You will risk having the epoxies not fully cure if this step is not followed.

To properly mix the epoxies it is advised that you use a slow speed drill with a minimum 3" mixing paddle. Mix 1 quart of pigment per 3 gallon kit of epoxy. 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 ensure 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. **EPOXY WILL SET UP MUCH QUICKER IF LEFT IN THE BUCKET!**

**(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-CTR SERIES Moisture Vapor Barrier ):**

This material is to be applied at a coverage rate of 100 sq.ft. per gallon

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 on the finished floor.

Begin by pouring the properly mixed epoxy primer across the floor in 8"-10" wide ribbons. The ribbons should be poured parallel to each other leaving approximately three feet between each ribbon pour. You have approximately 15 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. It is ALWAYS recommended to pour all of the material out and not leave any in the bucket.

Next, using a +/-17 mil notched squeegee, push the epoxy puddle while moving parallel with the ribbon pour to uniformly cover 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 +/- 12-16 hours but not more than 24 hours before applying the next coat.

## **2. Epoxy Intermediate Coat Application (CFS-CTR SERIES -Multi Purpose Epoxy Coat):**

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 on the finished floor.

Begin by pouring the properly mixed epoxy intermediate coat across the floor in 4"-6" wide ribbons. The ribbons should be poured parallel to each other leaving approximately three feet between each ribbon pour. You have approximately 15 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. It is ALWAYS recommended to pour all of the material out and not leave any in the bucket.

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

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

## **3. Decorative Flake Application:**

Immediately after the intermediate coat has been back rolled, begin broadcasting flakes evenly across the floor by tossing them in the air and letting them shower down on the wet epoxy. It is recommended to first lightly broadcast the entire floor and then to repeat the process until all of the available flake has been distributed or the desired look has been achieved.

Allow the epoxy to cure +/- 12-16hrs before sweeping or vacuuming any excess flakes off the floor. A wide floor scraper may be necessary to knock down sharp edges or vertical chips if heavy or full flake was applied.

#### **4. Clear Polyaspartic Topcoat Application CFS-2C Polyaspartic (Slow Set Two Component):**

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 on the finished floor.

This is a medium set time material. Based on the technical data sheet the actual usable working time is +/- 30 minutes, depending on environmental conditions and volumes.

(If a more textured surface profile is desired, the included Aluminum Oxide additive can be broadcast onto the dry flake. To broadcast the aluminum oxide, take small pinches between your fingers and toss them in the air letting them shower down on the dry flakes. The polyaspartic application and back roll step will encapsulate the aluminum oxide into the polyaspartic topcoat.)

Begin by pouring the properly mixed polyaspartic topcoat across the floor in 4"-6" wide ribbons. The ribbons should be poured parallel to each other leaving approximately two-three feet between each ribbon pour. Only pour out what can be squeegeed and backrolled with 25-30 minutes. The mixed material will last in the bucket (unlike epoxy) for +/- 30 minutes depending on environmental conditions.

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

Finally, back roll the polyaspartic topcoat perpendicular to the direction it was squeegeed. It is recommended to use a ¼" nap 18" "Epoxy Glide" roller cover.