

# U EPOXY IT™ FLAKE SYSTEM

## INTRODUCTION

Our proven epoxy flake coatings system is a two-coat; with an optional third coat system. This coatings system can transform old and new floors into not only beautiful ones, but also is highly chemical resistant, slip-resistant and forms a seamless easy-to-clean floor.

Concrete Floor Supply stocks a variety of color flakes in various color palettes to satisfy many design situations.

We always recommended testing your methodology before doing your entire floor. Please note that we do have sample kits of all our products.

The following instructions are based on the best practices used for installing the U Epoxy It, Epoxy Flake system.

1. Floor Prep & Repair
2. Base Coat - Pigmented
3. Epoxy Flake Broadcasting
4. Top-Coat

## FLOOR PREP & REPAIR

Surface preparation for this system is a key component that should not be overlooked. Surface preparation is required to remove any contaminations and create a profile for the proper adhesion of the epoxy.

Many methods are available to prepare a concrete floor for coating. The preparation method is largely determined by current surface conditions, time allowed for the entire process and accessibility.

One of the key components is to ensure that the surface is free from sealers. A simple test for this is to pour muriatic acid on the floor. If it immediately starts to foam, the floor likely has no sealer. If it doesn't foam immediately there is a sealer on the floor that must be removed by a chemical and/or mechanical method. Sealer or no sealer, the floor still needs to be properly profiled to ensure a good bond.

A few methods for properly preparing the concrete are:

1. Diamond Grinding
  - a. Using a lower grit (16, 30) metal bond diamond tool on a single headed or planetary grinder
    - i. If you are in the Kansas City area we rent and sell concrete grinding machines
2. Use our Tornado Satellite pad (30 grit)
  - a. Also use our Super Blue liquid floor prep
3. Use a low speed floor buffer and a black cleaning pad
  - a. Also use our Super Blue liquid floor prep

Ideally the substrate should be cleaned to a matte finish and free of any surface contaminants.

Repairs in the concrete can be made by simply mixing up a small batch of our concrete repair product, Quick Mender, and blending it with a clean and dry sand, making a 'wet sand castle' like material. This can be applied with a putty knife into cracks and holes. Leave this repair as flush as possible to the surface. High spots can be ground flush with the slab surface using a grinding cup wheel.

## BASECOAT – PIGMENTED

Our HyperRez Epoxy is a universal product and can be used as a base coat. The base coat should be pigmented the predominate color of flake to be used. For example: If the flake color chosen is predominantly grey, a grey pigment should be added to the basecoat.

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### MIXING

- HyperRez is to be mixed A:B, 2:1....meaning 2 parts "A" to one part "B". Mix only what you can use in a 20 to 30-minute time-period.

NOTE: MOST INSTALLERS MIX 1.5 TO 3 GALLONS AT A TIME AND HAVE EVERYTHING READY TO MIX ANOTHER BATCH WITH MINIMAL DOWNTIME.

- Add the proper amount of pigment to the mix (typically 6 oz/ gallon).
- Mix for two minutes (minimum) with a paddle mixer at low speed (do not hand stir, mechanically blend only)

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### APPLICATION

- Once the prime coat is mixed thoroughly immediately pour all the material out of the bucket in a ribbon on the floor. Spread using a notched squeegee trying to cover 100% of the floor. Back roll with a lint free  $\frac{3}{8}$  nap roller.
- Apply the primer coat at 125 to 150 sq.ft. per gallon
- Before the primer coat dries, broadcast flakes. Broadcast rate for a "full flake" is 12% of the sq.ft. of the floor. I.E. a 1000 sq.ft. floor will need 120 lbs. of flakes

## FLAKE BROADCAST

- Walking in the still wet epoxy in spiked shoes, broadcast color flakes into the epoxy. Multiple broadcast of flakes is recommended. Start by using high broadcast and not throwing flakes directly at the floor.
- Keep broadcasting flakes until rejection and there are no 'wet spots'
- Broadcast rate for a "full flake" is 12% of the sq.ft. of the floor. I.E. a 1000 sq.ft. floor will need 120 lbs. of flakes

## TOP COAT

After the basecoat with flakes has fully dried and before 24 hours has elapsed, it is ready to receive the clear coat. The base coat should be tack free. Flakes need to be knocked flat/smooth by dragging a straight edge along the floor or using a low speed floor buffer and a sanding screen to sand the flakes smooth. Note: The straight edge method will produce a floor with greater traction and an orange peel like texture.

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### MIXING

- HyperRez is to be mixed A:B, 2:1....meaning 2 parts "A" to one part "B". Mix only what you can use in a 20 to 30-minute time-period. Note: Most mix 1.5 to 3 gallons at a time.
- Mix for two minutes (minimum) with a paddle mixer at low speed (do not hand stir, mechanically blend only)
- Monkey grip can be added to the clear epoxy for additional traction

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### APPLICATION

- Once the top coat is mixed thoroughly immediately pour all the material out of the bucket in a ribbon on the floor. Spread using a notched squeegee. Application rates for the top coat should be around 125 to 150 sq. ft. per gallon. Back roll with a lint free  $\frac{3}{8}$  nap roller.
- HyperRez top coat is typically dry to light foot traffic within 24 hours. (temperature and humidity effect set time), car traffic in 48 hours
  - For our "Plus" system, use Aspartic 85 for a rapid set and increased durability