

FloroChip Epoxy Flake Flooring

Product Description: FloroChip is a decorative flooring system that offers a variety of colorful options and is easy to maintain.

Typical Uses, Applications: Ideally suited for commercial, industrial and light institutional applications, such as:

- Auto showrooms
- Office lobbies
- Nursing homes
- Schools and detention facilities

Product Advantages:

- Decorative
- Provides an impact resistant surface with exceptional strength and wear characteristics
- Typically installed using the random chip or full chip distribution method over a pigmented background
- Seamless and sanitary

Packaging: FloroChip is a multi-product system consisting of primer, pre-pigmented epoxy basecoat, colored chips, and a clear epoxy topcoat. Each component is arranged in a 3:1 mix ratio of base material to hardening catalyst.

- Floropoxy 4700 Primer –
4 Gallon Over Pack
20 Gal Pail Set
220 Gal Drum Set
- Floropoxy 4805 Pigmented Basecoat –
4 Gallon Over Pack
20 Gal Pail Set
- Individual Colored Chips –
10 lb Boxes
- Floropoxy 4805 Clear Topcoat –
4 Gallon Over Pack
20 Gal Pail Set
220 Gal Drum Set

Cured Physical Properties		
Property	Test Method	Results
Compressive Strength	ASTM C579	10,000 PSI
Tensile Strength	ASTM C2307	3,339 PSI
Flexural Strength	ASTM D790	7,770 PSI
Indentation	MIL-D-3134F	No Indentation
Hardness, Shore A / D	ASTM D2240	100 / 77
Percent Elongation	ASTM D2370	6%
Water Absorption	ASTM C413	0.2%
Bond Strength, ACI Committee #503 pg. 1139-1141	ASTM D454	>400 PSI
Abrasion Resistance, Taber Abrader CS 17 Wheel, 1000 gm load, 1000 cycles	ASTM D4060	38 mg
Water Resistance, Fed. Test Std. #141 Method 6011	ASTM D1308	No Effect
Salt Water Resistance Fed. Test Std. #141 Method 6061	ASTM B117	No Effect
Boiling Water Resistance (1 hour continuous exposure)	ASTM D2571	No Effect
Gloss, 60 Degrees	ASTM E97	90+

Storage: All containers should be stored at 40° F to 95° F and be kept tightly sealed and out of direct sunlight.

Coverage:

Clear Primer:

- Floropoxy 4700: 160 SF/Gallon

Pigmented Basecoat:

- Floropoxy 4805: 100 - 160 SF/Gallon

Colored Chips:

- Random Flake: 1 lb chips per 200 SF
- Full Flake: 1 lb chips per 5-6 SF

Clear Grout Coat:

- Floropoxy 4805: 100-160 SF/gallon

Surface Preparation: New concrete must have a 28 day cure, and preferably a broom swept finish, prior to coating. In the case of older concrete flooring, remove all surface oils, paint, dust and debris. Prior to coating, make sure the surface is clean, passes the MVT test and the water drop test and that all surface defects have been repaired. Refer to the Florock "Preparation of Concrete" datasheet for more information on preparation and MVT before proceeding.

Application over Bare Concrete:

Note: Floropoxy should not be applied when floor temperature is above 90°F or below 55°F, or when within 5°F of the dew point.

1. Primer Application: Once surface preparation is complete, apply Floropoxy 4700 primer to the concrete floor. In a clean, dry container, blend 3 parts by volume of Component A and 1 part by volume of Component B. Mix only the amount that can be applied during the working time. Mix thoroughly for 3-5 minutes, using a low speed mechanical mixer. Transfer the mixture from the batch container to a transport container. Remix and pour entire mix from the transport container onto floor immediately. Retaining mixture in the bucket will shorten the pot life. Using a 1/8" V notched squeegee, apply primer at a rate of 160 SF/gallon. Backroll with a 3/8" nap roller immediately after spreading.

Note: The cure time will vary with conditions. Allow a minimum of 4 hours and a maximum of 24 hours before next step.

2. System 4805 Basecoat Application: In a clean, dry container, blend 3 parts by volume of clear or pigmented resin Part A with 1 part by volume of activator Part B. Using a low speed mechanical mixer, blend well for 3-5 minutes. When tinting Floropoxy 4805 Clear, add Florock Epoxy Colorant at the rate of 1 quart colorant to a 4 gallon batch of clear epoxy. Transfer mixture from batch container to transport container and remix. Immediately pour entire mixture onto floor. Using a 1/8" V- notched squeegee spread System 4805 at 100 - 160 SF/gallon. Use a 3/8" roller to back-roll the coating. Allow System 4805 to completely self-level before broadcasting chips. Then, wearing spiked shoes, distribute FloroChips into still wet basecoat by throwing handfuls of chips into the air and allowing them to gently fall onto the floor in a random fashion. Sweep and vacuum as necessary to remove all excess chips before grouting.

Note: For a full flake, continue to broadcast chips until no wet spots are visible. Distributing chips onto wet epoxy without waiting long enough may result in sunken or buried chips. Do not throw chips directly at floor, as this will create an undesirable pattern. Figure 1lb chips for every 5 – 6 square feet. For a random flake, figure 1 lb for every 200 square feet.

3. System 4805 Grout Coat: When doing a FloroChip floor a grout coat of Floropoxy 4805 clear shall be applied over the chips within an 8-24 hour period after the basecoat application. Figure 100-160 SF/gallon.

4. Optional Finish Coat: Florothane MC Ultra and Florothane CR may be used as a finish coat over 4805. In this case one coat is sufficient.

Application over Existing Coating: Examine the existing coating to ensure that it is well-bonded to the concrete. Any loose coating must be completely removed. Edges where loose coating has been should be sanded to a feathered edge. Clean the entire floor thoroughly with detergent cleaner. The surface must be free of all dirt, oils, or other contaminants. Once floor has completely dried, sand the existing coating until a powdery residue is evident and all gloss is removed. Sweep or vacuum clean and wipe the thinner to ensure good adhesion of the new system. Any bare concrete should be mechanically prepared and primed with Floropoxy 4700. Follow steps 1 thru 4.

Please read material safety data before using product.

Disclaimer:

All statements and recommendations are based on experience we believe to be reliable. The use or the application of these products being beyond the control of the Seller or Manufacturer, neither Seller nor Manufacturer make any warranty, expressed or implied, as to results or hazard from its use. The suitability, risk and liability whatsoever of a product for an intended use shall be solely up to the User.