

FloroChip Epoxy Vinyl Flake Flooring System

Product Description:

FloroChip epoxy vinyl flake, is a decorative flooring system that offers a variety of colourful options and sizes and is easy to maintain. This system can be used in a single or a double broadcast application.

Typical Uses, Applications:

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

- Car showrooms
- Office lobbies & corridors
- Museums, Cinemas & Theatres
- Education establishments
- Detention facilities
- Pharmaceutical plants

Product Advantages:

- Highly Decorative
- Available in mini, midi and maxi flake sizes
- 12 exiting standard colour options
- Provides an impact resistant surface with exceptional strength and wear characteristics
- Typically installed using the random flake or full flake distribution method over a pigmented background
- Seamless and sanitary
- Can be installed with or without matching integral coving

Packaging:

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

• Floropoxy 4700 Primer –

2 - part A & B. 15.14 ltr pack when mixed

• Floropoxy 4805 Pigmented/clear

Basecoat –

2-part A & B. 15.14 ltr pack when mixed

- Individual boxes of coloured vinyl flakes

• Floropoxy 4805 Clear Topcoat –

2-part A & B. 15.14 ltr pack when mixed

Property	Test Method	Results
Compressive Strength	ASTM C579	93 N/mm ²
Tensile Strength	ASTM D2370	55.2 N/mm ²
Flexural Strength	ASTM D790	53.6 N/mm ²
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, (concrete failure)	ASTM D454	>3 N/mm ²
Abrasion Resistance, Taber Abrader CS 17 Wheel, 1000 gm load, 1000 cycles	ASTM D4060	38 mg loss
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 7° C to 35° C and be kept tightly sealed and out of direct sunlight.

Coverage:

Primer:

- FLOROCK system 4700: 3.8m² /ltr

Basecoat:

- FLOROCK system 4805 Pigmented: 2.8 – 3.8m² /ltr

Coloured vinyl flakes:

- Random Flake: 1kg per 10m² for a random broadcast
- Full Flake: 1kg per m²

Grout Coat (Solvent Free System):

- FLOROCK system 4805 Clear: 2.4-3.8 m² /ltr

****Note for a Double flake application repeat step 2 using clear resin and an additional broadcast of vinyl flakes**

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 Moisture Vapour Transmission (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 the floor temperature is above 32° C or below 13° C, or when within 3° C of the dew point.

1. Primer Application:

In a clean, dry container, blend 3 parts by volume of Resin Part A with 1 part by volume of Activator Part B. 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 flat or 3mm notched squeegee, apply at desired thickness. Backroll with a 10mm nap roller.

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 4805 Clear, add Epoxy Colourant at the rate of 0.95 ltr colourant to a 15 litre batch of clear epoxy. Transfer mixture from batch container to transport container and remix. Immediately pour entire mixture onto floor. Using a 3mm V-notched squeegee spread System 4805 at a rate of 2.4-3.8 m² /ltr. Use a 10mm roller to back-roll the coating. Allow System 4805 to completely self-level before broadcasting vinyl flakes. Then, wearing spiked shoes, distribute flakes into still wet basecoat by throwing handfuls of flakes into the air and allowing them to gently fall onto the floor in a random fashion.

****Note for a Double flake application repeat step 2 using clear resin and an additional broadcast of vinyl flakes**

Note: For a full flake finish, continue to broadcast flakes until no wet spots are visible. Distributing flakes onto wet epoxy without waiting long enough may result in sunken or buried flakes. Do not throw flakes directly at floor, as this will create an undesirable pattern. Broadcast at a rate of 1kg flakes for every m².

For a random flake finish, broadcast at a rate of 1kg per 10m².

3. System 4805 Grout Coat:

Following broadcasting, a grout coat of system 4805 clear shall be applied over the flakes within an 8-24 hour period after the basecoat application. Apply to a coverage rate of 2.4-3.8 m² /ltr

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Optional Finish Topcoats:

To enhance the abrasion, chemical, impact and slip resistance characteristics of the FloroChip system a range of high performance topcoats are available. Apply optional finish top coat within recoat window.

Please consult your Florock Technical Representative for further information.

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 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. After the floor has completely dried, sand the existing coating until a powdery residue is evident and all gloss is removed. Sweep or vacuum clean, finishing with solvent free wipes to ensure good adhesion of the new System.

Please read material safety data before using product.

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