

## Florotallic Shimmering Metallic Epoxy Decorative Flooring System

### Product Description:

Florotallic is a highly decorative flooring system with the look of a shimmering metallic stain. The versatile Florotallic system can be used with a wide range of Florock flooring products, and is available in a variety of colours and decorative effects to provide a unique and exciting floor.

### Typical Uses:

- Restaurants (front of house)
- Retail & leisure spaces
- Education establishments
- Hospitals & healthcare facilities
- Libraries, hotels, theatres, museums
- Showrooms
- Airport & railway concourses

### Product Advantages:

- Unlike conventional stains, Florotallic provides consistent, easily reproduced results over a variety of substrates
- More economical than other types of decorative flooring systems
- Wide range of decorative effects
- Available in solvent-free application
- Available for exterior applications
- Excellent durability, mar resistance and colour stability

### 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.

Cured Physical Properties		
Property	Test Method	Results
Compressive Strength	ASTM C579	77 N/mm <sup>2</sup>
Tensile Strength	ASTM C2370	50 N/mm <sup>2</sup>
Flexural Strength	ASTM D790	53.5 N/mm <sup>2</sup>
Indentation	MIL-D-3134F	No Indentation
Hardness, Shore D	ASTM D2240	80
Percent Elongation	ASTM D2370	6%
Water Absorption	ASTM C413	0.2%
Bond Strength, (concrete failure)	ASTM D454	>3 N/mm <sup>2</sup>
Abrasion Resistance, Taber Abrader CS 17 Wheel, 1000 gm load, 1000 cycles	ASTM D4060	105 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

### Installation over smooth, bare concrete:

#### 1. Primer:

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: 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.*

*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 Pigmented Basecoat Application:

In a clean, dry container, blend 3 parts by volume of resin Part A with 1 part by volume of activator Part B and, using a low speed mechanical mixer, blend well for 3 to 5 minutes. When tinting system 4805 clear, add Epoxy Colourant at the rate of 0.95 litres of colorant 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 4.8m<sup>2</sup>/ltr to achieve 200 microns dft, then backroll with a 10mm nap roller immediately after spreading.

*Note: The cure time will vary with conditions. For System 4805 allow a minimum of 8 hours and a maximum of 48 hours before moving on to next step.*

## 3. Florotallic Mid Coat:

In a clean, dry container, blend 3 parts by volume of clear Part A resin with 1 part by volume of Florotallic activator Part B and, using a low speed mechanical mixer, blend well for 3 to 5 minutes. Using a 3mm V-notched squeegee, spread the Florotallic system a rate of 1.9m<sup>2</sup>/ltr to achieve 500 microns dft and then back roll with a 10mm nap roller. Immediately after application, create your desired appearance by pulling or dragging the wet roller across the floor, or by creating lines or patterns in some other manner. This is best done by one person so that results are consistent across the entire area.

## 4. High Performance Top Coat:

The Florotallic system shall have a clear top coat of either Florothane system MC 100 or FloroWearsystem 7100 applied at 12m<sup>2</sup>/ltr dft. When using Florothane MC 100, glass beads

may be incorporated to add texture and enhance slip resistance.

Chemical Resistance	
Reagent	7 Days
Hydrochloric Acid 10%	E
Hydrochloric Acid 30%	E
Nitric Acid 10%	E
Phosphoric Acid 50%	G
Sulfuric Acid 37%	E,S
Acetic Acid 10%	E
Citric Acid 10%	E
Oleic Acid	E
Ammonium Hydroxide 10%	E
Sodium Hydroxide 50%	E
Ethylene Glycol (Antifreeze)	E
Isopropyl Alcohol	E
Methanol	E
D-Limonene	E
JP-4 Jet Fuel	E
Methylene Chloride	P
Methyl Ethyl Ketone	E
PMA	E
Ammonium Nitrate 20%	E
Brake Fluid	E
Bleach	E
Motor Oil (SAE30)	E
Skydrol 500B	E
Sodium LD4	E
Sodium Chloride 20%	E
Tide Laundry Soap 1%	E
Trisodium Phosphate 10%	E
Gasoline	E
Mineral Spirits	E
Xylene	E

Results based on 7 day spot testing on concrete. System cured 7 days prior to testing.

Rating Scale:

E- Excellent. No change in pencil hardness

G - Good. 1-2 units change in pencil hardness

F - Fair. 3 units change in pencil hardness

P - Poor. 4 or more units change in pencil hardness

S- Stains

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### **Maintenance:**

Sweep away dust and debris with a broom. Clean on a regular basis with a surfactant type, mild detergent. Florock floors never need to be waxed.

**Please read Material Safety Data before using product.**

### **Disclaimer:**

All statements and recommendations above are based on experience we believe to be reliable. The use or 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 of a product for an intended use shall be solely up to the User.