

FloroMica

Epoxy and Mica Blend Slurry Flooring

Product Description: FloroMica boasts an array of rich tones that mimics the elegance and appeal of architectural granite. Shimmering natural mica flakes accent the subtle undertones to create a beautifully unique finish with incredible depth, while durable Florock resins provide unparalleled high traffic protection.

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

- Auto showrooms
- Restaurants, groceries, retail stores, offices
- Hospitals, clinics, nursing homes
- Schools, museums, theaters, stadiums

Product Advantages:

- Highly decorative
- USDA, FDA, OSHA and EPA compliant
- Outstanding strength and durability
- Impact, abrasion and chemical resistant
- Seamless, sanitary and slip-resistant

Packaging: FloroMica flooring is a multi-product system consisting of a pre-pigmented epoxy primer, slurry coat and a clear topcoat.

- **FloroPoxy 4700 Pigmented Primer**
4 Gallon Over Pack
20 Gallon Pail Set
- **Optional FloroPoxy 4805 Pigmented Midcoat**
4 Gallon Over Pack
20 Gallon Pail Set
- **Slurry Coat: FloroPoxy 4805**
4 Gallon Over Pack
20 Gallon Pail Set
- **Mica Flake Blends**
25 Pound Box
- **FloroSpartic 5 Topcoat**
2 Gallon Case
10 Gallon Pail Set

Cured Physical Properties		
Property	Test Method	Results
Compressive Strength	ASTM C579	13,500 psi
Tensile Strength	ASTM D2370	8,000 psi
Flexural Strength	ASTM D790	7,770 psi
Indentation	MIL-D-3134F	No Indent
Hardness, Shore A/D	ASTM D2240	100/77
Percent Elongation	ASTM D2370	6%
Water Absorption	ASTM C413	0.2%
Bond Strength, ACI Committee #503 pgs. 1139-1141	ASTM D454	>400 psi
Abrasion Resistance, Taber Abrader CS-17 Wheel, 1000 gm load, 1000 cycles	ASTM D4060	15 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:

- Primer: FloroPoxy 4700 Pigmented – 160 SF per gallon
- Optional Midcoat: FloroPoxy 4805 Pigmented -- 120-160 SF per gallon
- Slurry Coat: FloroPoxy 4805 & Mica Flake – 4 Gallons blended epoxy mixed with 1,000 grams mica flake, applied at 26-27 SF per gallon of slurry (or 107 SF per 4 gallon slurry mix)
- Topcoat: FloroSpartic 5 Clear – 160-400 SF per 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:

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 and add the appropriate amount of colorant. 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: Florock 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.

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

2. Optional FloroPoxy 4805 Pigmented Midcoat

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 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 FloroPoxy 4805 at 120-160 SF/gallon. Backroll using a 3/8” roller.

3. FloroMica Slurry Coat: In a clean, dry container, blend 3 gallons of FloroPoxy 4805 Clear resin Part A with 1 gallon of FloroPoxy 4805 activator Part B. Using a low-speed mechanical mixer, blend well for 3-5 minutes. Transfer mixture from batch container to transport container and add 1000 grams (2.2 pounds or roughly 2 gallons by volume) of FloroMica Flake to the blended FloroPoxy 4805. Gently remix for 30-60 seconds or until the flake is fully incorporated into the 4805. Then immediately pour entire mixture onto floor. Using a 1/2” V-notched squeegee or 1/2” v-notched trowel, spread at a rate of 107 SF per mix. Flatten the slurry using a hand trowel or a smoothing trowel. Allow product to self level. Then, while wearing clean spike shoes, back roll floor with a loop roller or porcupine roller. This will help bring the epoxy liquid to the surface to make a smoother floor. Light pressure on the loop roller is all that is needed and care should be taken not to twist the roller on the floor. It is best to roll in straight lines and pick up the roller to move it over.

4. Florospartic 5 Topcoat: Once the FloroMica Slurry coat has reached its recoat window, sand the entire floor using 60-80 grit sand paper on a rotary floor machine. The sanding is intended to remove any protruding mica flakes and provide a smooth, level surface for topcoat application. A thorough sanding is required. Vacuum and solvent wipe the floor with 100 Solvent and apply FloroSpartic 5 within 2 hours of the solvent wipe.

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Mixing FloroSpartic 5: In a clean, dry container, blend 1 part by volume of Resin Part A with 1 part by volume of Activator Part B. Mix thoroughly for 2-3 minutes using a low speed mechanical mixer. FloroSpartic is best applied out of a roller pan as the pot life is longer if kept in mass. Apply at 160-400 sf per gallon, using a solvent resistant, medium nap (3/8"), roller.

Note: Glass Bead or Sharkskin may be used in FloroSpartic 5.

Note: Cooler temperatures require longer cure times. Consult your Florock Representative for details.

Note: FloroSpartic should not be applied when floor temperature is above 85°F or below 32°F, or when within 5° F of the dew point.

Note: Take care to not over-work or apply too thick. When FloroSpartic is over-worked or applied too thick, micro-bubbling will occur. At first glance, this can look like a "haze" on the coat of FloroSpartic Clear.

Application Over Existing Coatings:

1. Examine the existing coating to ensure that it is well-bonded to the concrete. Any loose coating must be completely removed. Feather any edges.
2. Clean the entire floor thoroughly with detergent cleaner; the surface must be free of all dirt, oils or other contaminants.
3. 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, and wipe with Xylene to help ensure good adhesion of the new system. Any bare concrete should be mechanically prepared and primed with the appropriate Florock FloroPoxy primer.

Maintenance: Sweep away dust and debris with a broom. Clean on a regular basis with a surfactant type mild detergent. Florock floors never need waxing. See the Florock "Care and Maintenance Guide" for details.

Please read Safety Data Sheets before using products.

DISCLAIMER: All preceding statements and recommendations 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.