

Florock Eco-Blend Epoxy, Aggregate and Recycled Glass Flooring

Product Description: The Florock Eco-Blend system takes the FloroQuartz and FloroShop systems and incorporates recycled glass using 25% or 33% recycled materials to generate LEED points. A Florock Eco-Blend floor is easy to clean and maintain; it prevents concrete dusting and retains its color and durability over time.

The amber glass goes nicely with both the Silica Sand for a shop floor and the Prairie Gold decorative quartz blend for a FloroQuartz floor, while the blue glass blends perfectly with the Skyline Silver and Night Sky Navy FloroQuartz floors.

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

- Schools
- Restaurants
- Kennels
- Auto Showrooms
- Locker Rooms and Lobbies
- Detention Facilities

Product Advantages:

- Dense, non-porous surface that resists penetration
- Impact resistant
- Durable floor made with recycled materials
- Excellent slip resistance

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

Cured Physical Properties		
Property	Test Method	Results
Tensile Strength	ASTM C2370	8,000 PSI
Flexural Strength	ASTM D790	4,300 PSI
Flexural Module of Elasticity	ASTM C580	2.0 x 10E6 PSI
Hardness, Shore D	ASTM D2240	85-90
Impact Resistance	ASTM D4541	>160 in. lbs.
Water Absorption	ASTM C413	0.01%
Indentation	MIL-D-3134F	No Indentation
Flammability	ASTM D635	Self-Extinguishing
Linear Shrinkage	ASTN D2566	0.02%
Flame Spread	ASTM E84	Class A
Heat Resistance Limitation	Continuous Exposure	140°F/60°C
Coefficient of Friction Rough/Medium/Smooth	ASTM D2047	0.9/0.8/0.6
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	0.06 gm max weight loss

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.

1/8" Double Broadcast Eco-Blend FloroQuartz Application or 1/16" Single Broadcast Eco-Blend FloroShop Application – Using 25% recycled content applied over smooth 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 and 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. Blend for 3-5 minutes using a low speed mechanical mixer. 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 SF/gallon. Use a 3/8" roller to back-roll the coating. Allow System 4805 to completely self-level before broadcasting the glass/quartz or glass/sand aggregate mixture. In a clean, dry container, mix three bags of silica sand or decorative quartz with one bag of colored glass. Then, wearing spiked shoes, broadcast the glass mixture into the still-wet basecoat. Continue broadcasting the mixture until all liquid is filled and there are

no apparent wet spots. Allow sufficient cure time until material is cured hard enough to walk on without leaving an impression in the coating. Sweep or blow off excess aggregate, sand or screen any high areas until smooth and then vacuum clean.

3. If using the glass/quartz mixture, repeat step two. If using the glass/silica mixture, proceed to step four.

For 33% recycled content, simply change the glass/quartz or glass/sand ratio to 2:1

4. System 4805 Grout Coat: A grout coat of Floropoxy 4805 shall be applied within an 8-24 hour period after the basecoat application. Apply in the same manner as in step #2, figuring 120 SF/gallon.

5. Finish Coat: Florothane MC 100 or the System 7100 may be used as a finish coat over Floropoxy 4805. In this case one coat is sufficient. Apply one coat of Florothane 7100 or MC Ultra 100 topcoat at 500 sqft/gallon.

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 one through five.

Florock Eco-Blend Epoxy, Aggregate and Recycled Glass Flooring

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