

FloroShop Epoxy Silica Flooring

Product Description: FloroShop provides excellent slip resistance in shop floor settings where slippage, abrasion or impact are concerns. FloroShop is easy to clean and maintain. It prevents concrete dusting and retains its color and durability over time.

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

- Machine shops
- Storage areas
- Manufacturing facilities
- Food processing facilities

Product Advantages:

- Dense, non-porous surface that resists penetration
- Impact resistant
- Highly economical shop floor solution

Packaging:

- Floropoxy 4700 Primer –
 - 4 Gallon Over Pack
 - 20 Gal Pail Set
 - 220 Gal Drum Set
- Floropoxy 4805 –
 - 4 Gallon Over Pack
 - 20 Gal Pail Set
 - 220 Gal Drum Set
- Silica Sand –
 - 50 lb Bags
- 100% Colorant –
 - 1 Quart

Cured Physical Properties		
Property	Test Method	Results
Compressive Strength	ASTM C695	13,500 PSI
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	ASTM D2566	0.02%
Flame Spread	ASTM E84	Class A
Heat Resistance Limitation	Continuous Exposure	140F/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

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: 160 sf/gal
- Basecoat:
- Floropoxy 4805: 120 sf/gal
- Sand Broadcast: 1/2# sand per sf
- (40 to 100 mesh Silica Sand)
- Grout Coat:
- Floropoxy 4805: 120 sf/gal
- Optional Finish Coat:
- Florothane CR/MC: 310 sf/gal

Note: Instead of using Floropoxy 4805 Clear for the grout coat you may substitute 2-3 finish coats of Florothane MC or CR.

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.

1/16" Single Broadcast FloroShop Application – 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. 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. Pigmented 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 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 silica sand. Then, wearing spiked shoes, broadcast 40 to 100 mesh silica sand into still wet basecoat. Continue broadcasting silica sand 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 quartz. Sand or screen any high areas until smooth. Vacuum clean.

3. Pigmented 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.

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

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.



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