

Floropoxy 4905 Slurry

Product Description: Floropoxy 4905 is the ideal epoxy for maximum loading of silica flour without loss of self-leveling properties. This slurry system provides an economical way of resurfacing a slightly imperfect slab. Silica flour is sold separately. It is available in with a standard or fast cure hardener.

Fast cure must be top coated with a pigmented high performance topcoat.

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

- Hospitals
- Detention facilities
- Warehouses
- Washrooms

Product Advantages:

- Tolerates loading of silica flour without loss of self-leveling properties
- Clear or pigmented glossy finish
- Self Leveling Epoxy system restores worn, pitted or deteriorated concrete to a smooth, highly dense and lustrous surface
- A variety of colors can be achieved with the addition of Florock 100% Solids Colorants

Packaging:

Resin:

3 Gal Kit

15 Gal Pail Set

165 Gal Drum Set

Silica Flour:

50# bag

Cured Physical Properties		
Property	Test Method	Results
Compressive Strength	ASTM C579	11,200 PSI
Tensile Strength	ASTM C2370	7,300 PSI
Flexural Strength	ASTM D790	12,500 PSI
Indention	MIL- D-3134F	No Indention
Shore Hardness	ASTM D2240	Shore A - 100
		Shore D - 80
Water Absorption	ASTM C413	0.2%
Adhesion Bond Strength	ASTM D454	>400 PSI
Abrasion Resistance, CS 17 Wheel, 1000 gm load, 1000 cycles	ASTM D4060	105 mg loss unfilled / 75 mg loss filled
Water Resistance Fed Tst Std. #141, Method 6011	ASTM D117	No Effect
Boiling Water Resistance (1 hour)	ASTM D2571	No Effect
Impact Resistance	ASTM D3134	> 160 in./lb.

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

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.

Coverage:

- 30 mils, spread rate is 53 SF/gallon
- 40 mils, spread rate is 40 SF/gallon
- 50 mils, spread rate is 32 SF/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.

Primer Application: Once surface preparation is complete, apply appropriate Florock to the concrete floor. In a clean, dry container, blend appropriate parts by volume. 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. Use a flat or notched squeegee to. Typically, this will be @ 160 sf/gal. Backroll with a 3/8" nap roller.

For slurry application, mix as follows:

- Using a 5 gallon batch pail, blend 2 gallons resin with 1 gallon activator for 2-3 minutes using a jiffy type mixer.
- While continuing to mix, slowly pour in Florock SL powder. When the pail is full, continue mixing. As the volume settles, add more SL powder. When finished, 33 lbs. of SL powder will have been mixed into 3 gallons of resin and the batch pail will contain approximately 4.5 gallons of slurry. *Add 1 qt. 100% colorant to each mix to produce a 4.75 gallon batch of slurry.*
- Transfer contents to transport container and remix. Pour entire mix onto floor immediately. Retaining mixture in the bucket will shorten pot life.

Chemical Resistance	
Reagent	Spot Test Results
Sulfuric Acid 10%	1
Sulfuric Acid 25%	1
Citric Acid 10%	1
Lactic Acid 10%	1
Acetone Acid 10%	1
Sugar Solution 10%	1
Isopropyl Alcohol	5
Acetone	5
Ammonia	1
Brake Fluid	4
Sodium Chloride 20%	1
MEK	5
JP 4 Jet Fuel	2
1-1-1 Trichloroethane	1
Methylene Chloride	5
Mineral Spirits	1
MIBK	5
Skydrol	5
Tincture of Iodine	1,S
Water	1

Rating Scale: Spot Test, ASTM D1308
Pencil Hardness Test, ASTM D3363

- 1 - Excellent. No change in pencil hardness
- 2 - Very Good. 1 Unit change in pencil hardness
- 3 - Good. 2 Units change in pencil hardness
- 4 - Fair. 3 Units change in pencil hardness
- 5 - Poor. 4 or more Units change in pencil hardness
- S - Stains

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4. Using a notched squeegee or wire guide applicator, spread slurry to desired thickness. The spread rates for the Floropoxy 4905 slurry system.

- 30 mils, spread rate is 53 SF/gallon
- 40 mils, spread rate is 40 SF/gallon
- 50 mils, spread rate is 32 SF/gallon

5. Wearing spiked shoes, backroll with spike roller.

Note: For optional top coat(s), after floor is cured hard, apply Florothane CR or Florothane MC, being mindful of recoat windows and cure times.

Instructions for Use over Existing Coatings:

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, and wipe with Florobase Thinner to ensure good adhesion of the new System.

Note: When coating over existing coatings, a test patch is recommended to evaluate compatibility.

**The cure time will vary with conditions. Allow a minimum of 4 hours and a maximum of 24 hours before next step.*

Liquid Physical Properties			
Property	M0-111 Pt A	U0-177 Pt B Std Cure	U0-178 Pt B Fast Cure
Flash Point	>200 F	>200 F	>200 F
Weight Per Gallon	9.52 lbs	8.25 lbs	N/A
N.V.W.	100%	100%	N/A
N.V.V.	100%	100%	N/A
Blended Components		Floropoxy 4905	
Blended Ratio, Volume (Epoxy Activator)		2:1	
Blended Solids		100%	
VOC, Blended		0	
Blended Viscosity, cps		1,000	
Pot Life (resin only)		24 min.	
Pot Life (w/ 1-44 SL powder)		24 min.	
Cured Hard*, Foot Traffic neat		12 hours	

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.

