

Floropoxy System 4700 Epoxy Primer

Product Description: Floropoxy System 4700 epoxy is 100% solids, fast curing and self-leveling. This coating is designed to penetrate and seal concrete floors. It cures to form a glossy, tough, smooth surface.

Typical Uses, Applications: Ideally suited for priming or midcoat use in commercial, industrial and institutional applications, such as:

- Hospitals
- Detention facilities
- Warehouses
- Manufacturing plants
- Washrooms

Product Advantages:

- Excellent durability and resilience
- 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:

- 4 Gal OverPack
- 20 Gal Pail Set
- 220 Gal Drum Set

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

Coverage:

Properly prepared floors will typically consume 10 to 16 mils of primer depending on the porosity of the surface. The spread ratio will be 100 SF/gal. for 16 mils. The spread ratio will be 160 SF/gal. for 10 mils..

Cured Physical Properties		
Property	Test Method	Results
Compressive Strength	ASTM D695	13,500 PSI
Tensile Strength	ASTM D2370	8,000 PSI
Hardness, Shore D	ASTM D2240	85 @ 0 sec.
		80 @ 15 sec.
Fluxural Strength	ASTM D790	12,000 PSI
Tensile Elongation	ASTM 2370	5%
Abrasion Resistance, Taber Abrader CS 17 Wheel, 1000 gm load, 1000 cycles	ASTM D4060	88 mg loss
Water Absorption	ASTM C413	0.2%
Bond Strength	ASTM D454	>400 PSI
Impact Resistance	ASTM D2794	160 lbs.

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.

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.

Primer Application: 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 1/8" notched squeegee, apply at desired thickness. Backroll with a 3/8" nap roller.

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

Self Leveler Application:

When the surface is not as smooth as desired after priming and a high performance topcoat will be the final step, a second application of Floropoxy as a self-leveler shall be applied at a sufficient thickness to restore the profile. Mix the same as with primer step. For 16 mils, apply at 100 SF/gal.

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.

Chemical Resistance	
Reagent	Spot Test Results
Water	1
Isopropyl Alcohol	4
Acetone	4
Sulfuric Acid 10%	1
Nitric Acid	1
Hydrochloric Acid 10%	2
Phosphoric Acid 50%	1
Citric Acid 10%	1
Brake Fluid	1
Salt 20%	1
Acetic Acid 10%	4
Sugar Solution 10%	1
MEK	4
JP 4 Jet Chloride	1
Methylene Chloride	D
Xylene	4
Toluene	4
Mineral Spirits	1
Skydrol	1
Tincture of Iodine	4,S
Lactic Acid 10%	4
Sulfuric Acid 25%	3

Rating Scale: Spot Test, ASTM D1308
Pencil Hardness Test, ASTM D3363
1 – No change in pencil hardness
2 – 1 Unit change in pencil hardness
3 – 2 Units change in pencil hardness
4 – 3 Units change in pencil hardness
D – Destroyed
S - Stains

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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 whatsoever of a product for an intended use shall be solely up to the User.

Liquid Physical Properties			
Property	Test Method	M0-076 Component A	U0-144 Component B
Viscosity	ASTM D2196	1000 cps	75 cps
Flash Point	ASTM D3278	>200 F	>200 F
Weight Per Gallon	ASTM D1475	9.13 lbs	8.10 lbs
N.V.W.	ASTM D2369	100%	100%
N.V.V.	ASTM D1259	100%	100%
VOC	ASTM D3960	0	0
Blended Components			
Blended Ratio		3:1 by volume	
Curing Time, 70° F @ 50% RH			
Set to Touch		4 hours	
Minimum Recoat (Foot Traffic)		6 hours	
Maximum Recoat		24 hours	
Pot Life (4 Gal. Volume)*		18 minutes @70° F	
Minimum Recommended Spread Time		160 SF/gal.	
Weight Per Gallon, ASTM D1475		8.62 lbs.	
N.V.W., ASTM D2369		100%	
N.V.V., ASTM D1259		100%	
Blended Viscosity, ASTM D2196		500 – 800 cps	
Recommended Clean Up Solvent		S 41Florobase Thinner	
VOC, ASTM D3960		0	

*Pot Life will be less with warmer slab and material temperatures.