

FloroPoxy 4805

Self-Leveling, 100% Solids Top Coat Clear or Pre-Pigmented

Product Description: FloroPoxy 4805 is a durable, solvent-free epoxy mid- and top coat with excellent self-leveling properties and good chemical resistance. In Clear, it provides a “water clear” finish that resists ambering over time. A variety of colors can be achieved with the addition of Florock 100% Solids Colorants.

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

- Manufacturing and logistics
- Educational and stadium facilities
- Healthcare and hospitals
- Public safety and detention locations
- Offices, warehouses, public buildings
- Restaurants and hospitality venues

Product Advantages:

- Excellent durability and resilience
- Amber resistant clear or pigmented, high gloss finish
- USDA, FDA, EPA, OSHA and ADA Compliant
- Free of amine sweat and haze
- Excellent self-leveling properties

Packaging:

- 4 Gallon Over Pack
- 20 Gal Pail Set
- 220 Gal Drum Set

Storage: All containers should be stored at 40° F to 95° F (4.4°C to 35°C) and be kept tightly sealed and out of direct sunlight.

Coverage: Apply FloroPoxy 4805 at 160 SF/gallon (3.9 m²/liter) to achieve 10 mils DFT or at 100 SF/gallon (2.24 m²/liter) to achieve 16 mils (9.5 mm) DFT.

Cured Physical Properties		
Property	Test Method	Results
Compressive Strength	ASTM C579	11,200 psi (77,221 kPa)
Tensile Strength	ASTM C2370	7,300 psi (50,331 kPa)
Flexural Strength	ASTM D790	7,770 psi (53,572 kPa)
Indentation	MIL-D-3134F	No Indentation
Hardness, Shore D	ASTM D2240	80
Percent Elongation	ASTM D2370	6.0%
Water Absorption	ASTM C413	0.2%
Bond Strength, ACI Committee #503 pg. 1139-1141	ASTM D454	>400 psi (>2,757 kPa)
Abrasion Resistance Taber Abrader CS 17 Wheel, 1000 gm load, 1000 cycles	ASTM D4060	105 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

Surface Preparation: New concrete must have a 28 day cure and preferably a broom swept finish, prior to coating. For older slabs, remove all surface oils, paint, dust and debris. Prior to coating, ensure 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” guide for more information on preparation and MVT before proceeding.

Note: Floropoxy should not be applied when floor temperature is above 90° F (32°C) or below 55° F (12.7°C), or when within 5° F (2.5°C) of the dew point.

Typical Application: One coat of FloroPoxy 4805 applied over FloroPoxy 4700 Primer.

Note: For a factory-pigmented or field tint job, the primer should be factory-pigmented or field tinted to the same color as the top coat. To field tint FloroPoxy 4805, blend 3 gallons Clear Epoxy Part A with 1 gallon Activator Part B and 1 quart of Florock 100% Solids Colorant.

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 Resin Part A with 1 part 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 squeegee, apply at desired thickness. Backroll with a 3/8" (9.5 mm) 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.

Top Coat Application: When the primer has cured, and before 24 hours elapses, apply the Floropoxy 4805 top coat. 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 to 5 minutes using a low speed mechanical mixer. Transfer the mixture from the batch container to a transport container Remix and pour entire contents from transport container onto the floor immediately. Using flat or notched squeegee, spread at 160 SF/gallon (3.9 m²/liter) for 10 mils (254 microns) or at 100 SF/gallon (2.24 m²/liter) for 16 mils (406 microns). Backroll with a 3/8" (9.5 mm) nap roller.

Chemical Resistance	
Reagent	Spot Test Results
Sulfuric Acid 10%	1
Sulfuric Acid 25%	1
Nitric Acid 10%	1
Hydrochloric Acid 10%	1
Phosphoric Acid 10%	4
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
Toluene	5
Xylene	5
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 - Good. 1-2 units change in pencil hardness
- 3 - Fair. 3 units change in pencil hardness
- 4 - Poor. 4 or more units change in pencil hardness
- 5 - Not recommended
- S - Stains

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Instructions for Use Over Existing Coatings:

Examine the existing coating to ensure that it is well bonded to the concrete. Clean the entire floor thoroughly with a non-residual 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 good removed. Any loose coating must be completely removed. Edges should be sanded and feathered. Sweep or vacuum clean, and wipe with xylene to ensure adhesion of the new system. must be completely removed. Edges should be sanded to a feathered edge. Clean the entire floor thoroughly with

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

Please read safety data sheets before using product.

Liquid Physical Properties			
Property	Test Method	M0-076 Part A	U0-161 Part B
Viscosity	ASTM D2196	6400 cps	45 cps
Flash Point	ASTM D3278	>200°F (>93°C)	>200°F (>93°C)
Weight Per Gallon	ASTM D1475	9.2 lbs (4.17 kg)	7.9 lbs (3.5 kg)
N.V.W.	ASTM D2369	100%	100%
N.V.V.	ASTM D1259	100%	100%

Blended Components	
Blended Ratio	3:1 by volume
Blended Solids	100%
Pot Life (15 lb. mass)*	24 minutes
Curing Time, 70° F @ 50% RH	
Set to Touch	8 hours
Minimum Recoat	12 - 14 hours
Maximum Recoat	48 hours
Foot Traffic	12 hours
Floor & Air Temperature Limitations**	55°F - 90°F (13°C - 32°C)
Blended Viscosity, ASTM D2196	1000 cps
Recommended Clean-Up Solvent	Xylene
VOC, ASTM D3960	0

* The pot life will be reduced with warmer air, substrate or material temperatures.

** Cooler temperatures require longer curing time.

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.