

Floropoxy 4805 Self Leveling, 100% Solids Top Coat Clear or Pre-Pigmented

Product Description: Floropoxy 4805 is durable, has excellent self-leveling properties and is crystal clear and amber resistant. Floropoxy 4805 is ideal as the final coat because it makes floors easier to clean and prevents concrete dusting.

Typical Uses, Applications: Ideally suited for mid-coat and topcoat use in commercial, industrial and light institutional applications, such as:

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

Product Advantages:

- Excellent durability and resilience
- Amber resistant clear or pigmented glossy finish
- No amine sweat or haze
- Excellent self-leveling properties
- A variety of colors can be achieved with the addition of Florock 100% Solids Colorants

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 and be kept tightly sealed and out of direct sunlight.

Coverage:

Apply Floropoxy 4805 at 160 SF/gallon for 10 mils or at 100 SF/gallon for 16 mils.

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.

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	7,770 PSI
Indentation	MIL-D-3134F	No Indentation
Hardness, Shore D	ASTM D2240	80
Percent Elongation	ASTM D2370	6%
Water Absorption	ASTM C413	0.2%
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	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

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

Note: For a pre-pigmented or field tint job, the primer should be pre-pigmented or field tinted to the same color as the top coat. For field tinting Floropoxy 4805, blend 3 gallons Clear Epoxy Part A with 1 gallon Activator Part B and 1 quart of Florock 100% 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" 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 for 10 mils or at 100 SF/gallon for 16 mils. Backroll with a 3/8" nap roller.

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
Sulfuric Acid 10%	1
Sulfuric Acid 25%	1
Nitric Acid 10%	1
Hydrochloric Acid 10%	1
Phosphoric Acid 50%	4
Citric Acid 10%	1
Lactic Acid 10%	1
Acetic 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 - 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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Please read material safety data before using product.

Disclaimer:

All statements and recommendations are based on experience we believe to be reliable. The use or the 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	M0-091 Epoxy	U0-161 Activator
Viscosity	ASTM D2196	6400 cps	45 cps
Flash Point	ASTM D3278	>200°F	>200°F
Weight Per Gallon	ASTM D1475	9.2 lbs	7.9 lbs
N.V.W.	ASTM D2369	100%	100%
N.V.V.	ASTM D1259	100%	100%
Blended Components			
Blending 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 Temp. Limitaion**		55°F - 90°F	
Blended Viscosity		1000 cps	
Recommended Clean Up Solvent		S-41 Florobase Thinner	
VOC, Blended		0	

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

**Cooler temperatures require longer dry time. Film thickness affects dry time.

