

Floropoxy 4900 100% Solids Epoxy Clear Midcoat/Topcoat

Product Description: Floropoxy 4900 is a non-ambering, clear glossy epoxy, ideal as a midcoat or topcoat over slurry, mortar and decorative flooring systems. Floropoxy 4900 may be used in place of Floropoxy 4805 in any Florock System.

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

- Hospitals
- Detention facilities
- Warehouses
- Manufacturing Plants
- Schools and Universities
- Restaurants and Hospitality Facilities
- Retail and Grocery Stores

Product Advantages:

- Amber-resistant clear
- High performance and durability
- Very low odor
- Meets USDA requirements
- A variety of colors can be achieved with the addition of Florock 100% Solids Colorants

Packaging:

- 3 Gal Case
- 15 Gal Pail Set

Cured Physical Properties		
Property	Test Method	Results
Compressive Strength	ASTM C579	11,200 psi
Tensile Strength	ASTM C2370	6,000 psi
Flexural Strength	ASTM D790	12,400 psi
Indentation	MIL-D-3134F	No Indentation
Shore Hardness	ASTM D2240	Shore D 80
Water Absorption	ASTM C413	0.1%
Flammability	Over Concrete	Self-Extinguishing
Bond Strength	ASTM D454	>400 psi
Gloss	60 Degree	85 units
Abrasion Resistance, Taber Abrader CS 17 Wheel, 1000 gm load, 1000 cycles	ASTM D4060	35 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
Impact Resistance	ASTM D3134	>160 in/lb

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

Coverage: Apply Floropoxy 4900 at 160 SF per gallon to achieve 10 mils thickness or at 100 SF per 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.

Typical Application: One coat of Floropoxy 4900 applied over Floropoxy 4905 Fast Cure Primer.

Note: For a field tinted application, the primer should be tinted to the same color as the topcoat.

Primer Application: Once surface preparation is complete, apply Floropoxy 4905 Fast Cure Primer to the concrete floor. Follow mixing and application instructions for Floropoxy 4905.

Note: The cure time will vary with conditions. Allow a minimum of 6 hours and a maximum of 24 hours before next step.

Clear Top Coat Application: When the primer has cured, and before 24 hours elapses, apply the Floropoxy 4900 top coat. In a clean, dry container, blend 2 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.

Chemical Resistance	
Reagent	24 Hour Spot Test Results
Water	1
Isopropyl Alcohol	5
Acetone	5
Ammonia	1
Sulfuric Acid 10%	1
Sulfuric Acid 25%	1
Nitric Acid 10%	1
Hydrochloric Acid 10%	1
Phosphoric Acid 50%	4
Citric Acid 10%	1
Brake Fluid	4
Sodium Chloride 20%	1
Acetic Acid 10%	1
Sugar Solution 10%	1
MEK	5
JP 4 Jet Fuel	2
1-1-1 Trichloroethane	1
Methylene Chloride	5
Xylene	5
Toluene	5
Mineral Spirits	1
MIBK	5
Skydrol	5
Tincture of Iodine	1,S
Lactic Acid 10%	1

System cured 2 weeks prior to testing. Test results are based on 1 hour and 24 hour exposures with 2 hour recovery.

- 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- Stains

Field Tinting Floropoxy 4900: Blend 2 gallons clear epoxy Part A with 1 gallon Activator Part B and add 1 or 2 quarts of Florock 100% Solids Colorant. Consult colorant chart or your Florock Representative to decide which amount of colorant is best for your application.

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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. The surface must be free of all dirt, oils or other contaminants. After the floor has completely cured, sand the existing coating until a powdery residue is evident and all gloss is good removed. Sweep or vacuum clean, and wipe with Florobase Thinner to ensure adhesion of the new system.

Please read material safety data before using product.

DISCLAIMER:

All preceding 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.

4900 Liquid Physical Properties			
Property	Test Method	M0-109 Component A	U0-174 Component B
Viscosity	ASTM D2196	950 cps	300 cps
Flash Point	ASTM D3278	>200 F	>200 F
Wt./Gal	ASTM D1475	9.5 lbs	8.5 lbs
N.V.W.	ASTM D2369	100%	100%
N.V.V.	ASTM D1259	100%	100%

Blended Component Properties 4900	
Blended Ratio	2:1 by volume
Blended Solids	100%
Pot Life (15 lb. mass)*	29 minutes
Curing Time, 70° F @ 50% RH	
Set to Touch	12 hours
Minimum Recoat	12-14 hours
Maximum Recoat	24 hours
Foot Traffic	12-14 hours
Floor & Air Temp. Limitation**	55° F - 90° F
Blended Viscosity, ASTM D2196 - 4900	650 cps
Blended Viscosity ASTM D2196 – 4900V	8,000 cps
Recommended Clean Up Solvent	Xylene
VOC, ASTM D3960	0

*Pot Life will be less with warmer slab and material temperatures. Pot life is based on 15 pound mass. Larger masses will have a shorter life.

**Cooler temperatures require longer cure time.