

Novolac Epoxy

Product Description: Novolac is a two component, 100% solids secondary containment topping/lining that provides superior protection to concrete surfaces subjected to many acid and caustic solutions. Novolac may be used alone, with the addition of silica sand or decorative colored quartz aggregate. For a colored resin system, add the Florock Epoxy colorant of choice to Clear Novolac resin.

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

- Chemical and waste treatment plants
- Pulp & paper
- Textile mills
- Metal finishing and power generation facilities

Product Advantages:

- Provides a highly acid and alkali resistant layer to existing coatings
- Solvent free
- Can be colored into numerous variations with Florock Epoxy Colorant

Packaging:

- Florock Novolac -
5 Gal Kit
25 Gal Pail Set

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

Coverage:

Florock Novolac -
For a 10 mil film, spread at 160 SF/gallon

Cured Physical Properties		
Sward Hardness, A/D	ASTM D2240	90 / 70
Tensile Strength	ASTM D2370	4,100 PSI
Fluxural Strength	ASTM D790	6,200 PSI
Filled Fluxural Strength	ASTM D790	1,900 PSI
Filled Compressive Strength	ASTM D695	9,750 PSI
Gloss	ASTM E97	95+

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 water drop test and that all surface defects have been repaired.

Novolac Application – Applied on smooth, bare concrete (Two coats of Novolac over primer).

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.

1. Primer Application: Once surface preparation is complete, apply Floropoxy 4700 primer to the concrete floor. In a clean, dry container blend Floropoxy Primer. 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 1/8" V notched squeegee or 3/8" nap roller, apply basecoat at a rate of 100-160 SF/gallon. Backroll with a 3/8" nap roller immediately after spreading. Allow primer to cure before applying the basecoat.

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

2. Novolac Coat: In a clean, dry container, blend 3 parts Novolac Part A with 2 parts Part B. If desired, add Florock 100% Solids Epoxy Colorant. Figure 1-1/2 gallons Novolac Epoxy, 1 gallon Novolac Activator and 1 quart 100% colorant for a typical field batch to yield 2.75 gallons. Blend well with a low speed mechanical mixer for approximately 5 minutes. Using a flat or 1/8" notched squeegee, apply the material at a rate of 160 SF/gallon. For best results, immediately backroll with a short nap roller to ensure uniformity.

3. Final Novolac Coat: Repeat step #2. Allow a minimum of 24 hours dry time before opening floor to light traffic. For complete acid, caustic and chemical resistance, allow a 7 day cure complete acid, caustic and chemical resistance, allow a 7 day cure.

Instructions for Use over Existing Coatings

1. Examine the existing coating to ensure that it is well bonded to the concrete. Any loose coating must be completely removed. Edges where loose coating has been removed should be sanded to a feathered edge.
2. Clean the entire floor thoroughly with detergent cleaner. The surface must be free of all dirt, oils or other contaminants.

Liquid Physical Properties			
Property	Test Method	M0 - 090 Component A	U0 - 141 Component B
Viscosity	ASTM D2196	1600 cps	550 cps
Flash Point	ASTM D3278	>200 F	>200 F
Weight Per Gallon	ASTM D1475	9.8 lbs	8.6 lbs
N.V.W.	ASTM D2369	100%	100%
N.V.V.	ASTM D1259	100%	100%
VOC	ASTM D3960	0	0

Blended Components: Thin Film (Resin without Aggregate)	
Blended Ratio	3:2
Induction Time	None
Pot Life, 15 lb mass	40 min.
Recommended Spread Rate	Varies
Cure Time at 70° F @ 50% RH using spread rate 150 SF/Gal	
Set to Touch	5 – 8 hours
Minimum Recoat	8 hours
Maximum Recoat	24 hours
Foot Traffic	24 – 72 hours
Floor and Air Temp. Limitations	55° - 90° F
Blended Viscosity	970 cps
Clean-up Solvent	MEK
N.V.W.	100%
N.V.V.	100%
Density	10.0 lb/gal
VOC	0 gpl
Recommended Thinner	None

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3. 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. Any bare concrete should be mechanically prepared and primed with Floropoxy 4700.

Maintenance: Sweep away dust and debris with a broom. Clean on a regular basis with a surfactant type mild detergent. Florock floors never need to be waxed.

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 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.

Chemical Resistance Guide	
7 day immersion tests	
Coating cured 7 days @ room temperature	
Acetic Acid 30%	3
Acetic Acid 10%	2
Acetic Acid 5%	1
AFFF (Aqueous Film Forming Foam)	1
Chloroform	4
Formic Acid 10%	3
Formic Acid 5%	2
Hydrochloric Acid 37%	1,D
Hydrofluoric Acid 16%	4
Lactic Acid 30%	2
Lactic Acid 20%	2
Lactic Acid 10%	2
Nitric Acid 50%	4,D
Nitric Acid 30%	2,D
Nitric Acid 10%	1
Nitric Acid 5%	1
Perchloroethylene 100%	1
Phosphoric Acid 85%	2,D
Phosphoric Acid 40%	2
Phosphoric Acid 20%	2
Potassium Hydroxide 25%	1,D
Sodium Hydroxide 50%	1
Sodium Hypochlorite 10%	1
Sulfuric Acid 98%	3,S
Sulfuric Acid 50%	2,S
Sulfuric Acid 37%	2,D
Sulfuric Acid 10%	1

- 1- Excellent. No change in pencil hardness
- 2 - Very Good. 1-2 units change in pencil hardness
- 3 - Fair. 3 units change in pencil hardness
- 4 - Unsatisfactory. 4 pr more units change in pencil hardness
- D - Discolors
- S - Stains/Softens