FloroPoxy Novolac

Acid & Alkali Resistant Epoxy

Product Description: FloroPoxy Novolac is a two component, 100% solids secondary containment coating that provides outstanding protection to concrete surfaces subjected to a broad range of acidic and caustic solutions. The coating may be used alone or with the addition of silica sand or decorative* quartz or flake aggregate.

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

- Chemical and waste treatment plants
- Pulp and paper processing
- Textile mills
- Metal finishing and power generation facilities
- Hospitals, clinics, nursing homes
- Food processing plants
- Schools and universities
- Detention and public safety buildings
- Warehouses and logistics operations
- Manufacturing plants
- Aviation and transportation facilities
- Hospitality and restaurants
- Grocery stores and retail establishments

Product Advantages:

- Provides excellent resistance to high concentration acids and alkalis
- Good bond and resilience
- USDA, FDA, EPA, OSHA and ADA compliant
- Can contribute to LEED Green Building Credits
- Tintable with Florock Colorants*

* *FloroPoxy Novolac ambers when exposed to sunlight. Select darker colors for best results.*

Cured Physical Properties		
Property	**Test Method**	**Results**
Filled Compressive Strength	ASTM D695	9,750 psi
Tensile Strength	ASTM D2370	4,100 psi
Filled Flexural Strength	ASTM D790	1,900 psi
Flexural Strength	ASTM D790	6,200 psi
Sward Hardness, A/D	ASTM D2250	90/70
Gloss, 90 Degrees	ASTM E97	95+

Packaging:

- 5 Gallon Kit
- 25 Gallon Pail Set

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

Coverage: Spread at 160 SF/gallon to achieve 10 mils DFT

1120 W Exchange Ave, Chicago, IL 60609 USA, (800) 356-7625, www.florock.net

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.

Standard FloroPoxy Novolac System: Apply two coats over Florock primer on smooth, bare, properly-prepared concrete.

1. Primer Application: Once surface preparation is complete, apply Floropoxy 4700 primer to the concrete floor. In a clean, dry container blend , then 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. First Coat FloroPoxy Novolac:
Clear Mix: In a clean, dry container, blend 3 parts Novolac Part A with 2 parts Part B.
Tinted Mix: If desired, add Florock Colorant. Calculate 1.5 gallons Novolac Part A, 1 gallon Novolac Part B Activator and 1 pint Florock Colorant to yield 2.625 gallons.

Blend well with a low speed mechanical mixer for approximately 5 minutes. Apply the material at a rate of 160 SF/gallon with a flat or 1/8" notched squeegee, For best results, immediately backroll with a short nap roller to ensure uniformity.

3. Second Coat FloroPoxy Novolac: Within the recoat window, repeat Step 2 above. 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.

Liquid Physical Properties			
Property	**Test Method**	**M0-076 Part A**	**U0-144 Part B**
Viscosity	ASTM D2196	1600 cps	550 cps
Flash Pt.	ASTM D3278	>200º F	>200º F
Wt./Gal.	ASTM D1475	9.8 lbs	8.6 lbs
N.V.W.	ASTM D2369	100%	100%
N.V.V.	ASTM D1259	100%	100%
V.O.C.	ASTM D3960	0	0

Blended Components	
Blended Ratio	3:2 by volume
Results at 70º F with 50% RH	
Set to Touch	5-8 hours
Minimum Recoat	8 hours
Maximum Recoat	24 hours
Foot Traffic	24-72 hours
Pot Life (15 lb. Mass)*	40 minutes
Recommended Spread Rate	Varies
Weight Per Gallon, ASTM D1475	8.62 lbs.
N.V.W., ASTM D2369	100%
N.V.V., ASTM D1259	100%
Blended Viscosity, ASTM D2196	970 cps
Recommended Clean Up Solvent	MEK
V.O.C, ASTM D3960	0 gpl
Floor and Air Temp. Limitations	55º - 90º F
Density	10.0 lbs/gallon

**Pot Life will be shorter with warmer slab, material temperatures.*

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

1120 W Exchange Ave, Chicago, IL 60609 USA, (800) 356-7625, www.florock.net

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. Once 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 xylene to ensure good adhesion of the new system.

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

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

Chemical Resistance	
7 Day Immersion Tests Coating Cured 7 Days at Room Temperature	
Reagent	**Spot Test Results**
Acetic Acid 30%	1
Acetic Acid 10%	3
Acetic Acid 5%	2
AFFF (Aqueous Film Forming Foam)	1
Chloroform	1
Formic Acid 10%	4
Formic Acid 5%	3
Hydrochloric Acid 37%	2
Hydrofluoric Acid 16%	1, D
Lactic Acid 30%	4
Lactic Acid 20%	2
Lactic Acid 10%	2
Nitric Acid 50%	2
Nitric Acid 30%	4, D
Nitric Acid 10%	2, D
Nitric Acid 5%	1
Perchloroethylene 100%	1
Phosphoric Acid 85%	1
Phosphoric Acid 40%	2, D
Phosphoric Acid 20%	2
Potassium Hydroxide 25%	2
Sodium Hydroxide 50%	1,D
Sodium Hypochlorite 10%	1
Sulfuric Acid 98%	1
Sulfuric Acid 50%	3, S
Sulfuric Acid 37%	2, S
Sulfuric Acid 10%	2, D

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

1120 W Exchange Ave, Chicago, IL 60609 USA, (800) 356-7625, www.florock.net