Florock®

Excellence in Polymer Flooring sales@florock.co.uk • www.florock.co.uk

Novolac Epoxy Secondary Containment Chemical Lining System

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 coloured quartz aggregate. For a coloured resin system, add the Florock Epoxy colourant 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 facilities
- Textile mills
- Metal finishing and power generation facilities

Product Advantages:

- Provides a highly acid and alkali resistant layer to existing coatings
- Solvent free
- A variety of colours can be achieved with the addition of Florock 100% Solids Colourants

Packaging:

2 part A+B 18.9 litres (when blended)

Storage:

All containers should be stored between 16° C to 30° C in a dry area and be kept tightly sealed and out of direct sunlight.

Coverage:

3.8m²/litre at 250 microns dft

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+		

Liquid Physical Properties				
Property	Test Method	M0 - 090 Comp. A	U0 –141 Comp.B	
Viscosity	ASTM D2196	1600 cps	550 cps	
Flash Point	ASTM D3278	>93 C	>93 C	
Weight Per Litre	ASTM D1475	1.18 Kg	1.04 Kg	
N.V.W.	ASTM D2369	100%	100%	
N.V.V.	ASTM D1259	100%	100%	
VOC	ASTM D3960	0	0	

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 Moisture Vapour Transmission (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.

Application – Applied on smooth, bare concrete (Two coats of Novolac over system 4700 primer).

Note: Floropoxy 4700 primer should not be applied when floor temperature is above 32° C or below 13° C, or when within 3° C 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 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 10mm 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.

2. Novolac Coat 1st coat

In a clean, dry container, blend 3 parts Novolac Part A with 2 parts Part B. If desired, add Florock 100% Solids Epoxy Colourant. Blend 2 litres of 100% colourant to each 18.9 litre batch of blended A+B Novolac resin for a typical field tint project

Blend well with a low speed mechanical mixer for approximately 5 minutes. Using a flat or

Blended Components: Thin Film (Resin without Aggregate) Blended Ratio 3:2 Induction Time None 40 min. Pot Life, 6.8kg mass 3.8m²/litre at 250 microns dft **Recommended Spread Rate** Cure Time at 21° C @ 50% RH using spread rate of 3.8m²/ltr Set to Touch 5-8 hours Minimum Recoat 8 hours Maximum Recoat 24 hours Foot Traffic 24 – 72 hours Floor and Air Temp. 13º - 32º C Limitations Blended Viscosity 970 cps Clean-up Solvent MEK N.V.W. 100% N.V.V. 100% Density 1.2 kgs per litre VOC 0 gpl None Recommended Thinner

3mm notched squeegee, apply the material at a rate of 3.8m²/litre at 250 microns dft. For best results, immediately backroll with a short nap roller to ensure uniformity.

3. Novolac 2nd 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

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

Florock®

Excellence in Polymer Flooring sales@florock.co.uk • www.florock.co.uk

Novolac Epoxy Secondary Containment Chemical Lining System

completely dried, sand the existing coating until a powdery residue is evident and all gloss is removed. Sweep or vacuum clean, finishing with solvent free wipes to ensure good adhesion of the new System.

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

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 of 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 Guide			
7 day immersion tests			
Acetic Acid 30%			
Acetic Acid 30%	2		
	2		
	1		
AFFF (Aqueous Film Forming Foam)	1		
Chloroform	4		
Formic Acid 10%	3		
Formic Acid 5%	2		
Hydrofluorio Acid 16%	1,D		
Lactic Acid 30%	2		
Lactic Acid 30%	2		
Lactic Acid 20%	2		
Nitrio Acid E0%	4 D		
Nitrie Acid 30%	4,D		
Nitrie Acid 30%	2,0		
Nitrie Acid 70%	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 - Discolours

S - Stains/Softens

03/2013 Page 3 of 3