



FX-544

Flexibilized Novolac Epoxy Coating

DESCRIPTION:

FX-544 Flexibilized Novolac Epoxy Coating is a two-component, 100% solids epoxy coating based on multi-functional high performance flexibilized resin. **FX-544** provides corrosion resistant protection to steel, other metals and concrete. **FX-544** has excellent resistance to chemicals up to 300°F. **FX-544** is resistant to continuous immersion in water up to 212°F. **FX-544** is formulated in a convenient 1 to 1 ratio, by volume mix ratio and has a long pot life to simplify application. **FX-544** is more effective in applications which entail force curing.

ADVANTAGES:

- Excellent corrosion barrier properties.
- Excellent chemical resistance.
- Acceptable for potable water applications.
- Excellent adhesion to most metals.
- It protects concrete, steel, or wood from salts, acids, and alkalies

WHERE TO USE:

For Chemical Protection Of:

- Steel Tanks
- Piping
- Heat Exchangers
- Condenser Boxes
- Hot Water Tanks
- Concrete
- Manholes

SURFACE PREPARATION:

Steel Surfaces: Steel surfaces should be abrasive blasted to a commercial gray metal finish as specified by the Steel Structures Painting Council SP-6. For immersion service, blast to near white blast SSPC SP-10.

MIXING:

Stir Components "A" & "B" thoroughly before mixing. Combine one part by volume of "A" with one part by volume of "B" (mixing ratio 1:1). Mix for not less than three minutes using a slow speed drill (300 to 600 rpm) and FX-Mixing Paddle. Scrape side and bottom to ensure thorough mixing. Avoid entrapping air. Apply immediately after mixing.

APPLICATION:

FX-544 Flexibilized Novolac Epoxy Coating may be applied by brush, roller, or spray. All spray equipment must employ traps to prevent water and oil from contaminating coating. Thinning may be required for spraying. Heating may be required for spraying. Heating will shorten pot life to 20 minutes at 100°F. Apply immediately after mixing. Apply 10 mils wet film thickness. Apply topcoat after primer is tack free between 4 and 24 hours. If heated, the tack free time will be reduced. **FX-Fiber Reinforcement** is recommend for tank relining. Apply the first coat of **FX-544** then place reinforcement. Work reinforcement into coating. Second coat of **FX-544** is applied after about 3 hours. Be sure to apply second coat within 24 hours of first coat.

COVERAGE:

100-200 square feet per gallon (per coat), dependent upon surface texture and desired thickness. When applying **FX-Fiber Reinforcement** the coverage will be less.

PACKAGING:

FX-544 Flexibilized Novolac Epoxy Coating is packaged in 2-gallon and 10-gallon kits.

CAUTION:

WARNING! A Component contains epoxy resin. B Component contains alkaline amines; strong sensitizer. May cause skin sensitization or other allergic responses. Use with good ventilation, particularly if material is heated or sprayed. Prevent all contact with eyes or skin. Wear protective clothing, goggles, gloves, and/or barrier creams. Keep container closed when not in use. Wash thoroughly after handling.

(over)

TYPICAL PROPERTIES:

Pot Life @ 70-75°F	45-60 mins.
Working Time	
Application Time @ 70-75°F	35 mins.
Cure Time @ 70-75°F	
Foot Traffic	O'nite/16 hrs.
Light Vehicular Traffic	1-2 days
Service	3-7 days
Mix Ratio (by volume)	
Part A:Part B	1:1
Primer (concrete)	Self-Priming
Hardness, Shore D	
ASTM D 2240	65-80
Tensile Strength, psi	
ASTM D 638	7 days cure @ 70-75°F- 4,000
+	
Elongation % @ Break	5-10
ASTM D 638	7 days cure @ 70-75°F
Compressive Strength, psi	
ASTM D 575	10,000+
Impact Strength, in.-lbs.	
ASTM D 4226	Falling Ball Method 10+
Low Temperature Flexibility	
ASTM D 3111, 360°Bend	
1/4" Mandrel @ -15°F	
10 mil thickness	
Passed	Chemical Resistance
	* Solvent Resistance
Good	* Alkali Resistance
	Excellent
	* Acid Resistance
Good	* Fuel Oil
Excellent	