

# Fo-Poxy (SP4 Coat)

## Surface Tolerant Epoxy Coating

### DESCRIPTION:

Fo-Poxy (SP4 Coat) is a special self-priming Epoxy Coating and Lining compound which provides excellent adhesion and can be applied directly to marginally prepared steel surfaces. It is a high solids plural component system composed of ceramics in a polymeric binder, providing excellent performance in corrosive, chemical and abrasive environments for protection of Steel and Concrete. It is resistant to all petroleum distillates, most solvents, dilute acids, dilute alkalis, acidic fumes, distilled water, seawater, waste water and corrosive atmosphere. It can be cured even in damp surface and hence is an ideal solution for structural coatings especially during monsoon season.

### FEATURES

- Self priming on steel substrates.
- Inflammable without carbonization
- Excellent resistance to wide range of chemicals
- Spray or brush and roller applied

### TYPICAL USES:

- External coating for flow lines and transmission lines
- Marine Applications
- Petroleum and industrial process equipment and Tank exteriors
- Refineries, Offshore rigs and platforms
- Water Treatment Plants
- Chemical Plants
- Power Plants
- Fabrication Shops
- Mining and Minerals Industry.

### COLORS:

Fo-Poxy (SP4 Coat) is available in standard Grey and other Colors can be made available on request.

### PACKAGING:

Fo-Poxy (SP4 Coat) is available in 24 kgs Set (shipped in Pails of 20 Kgs of Part A and 4 kgs of Part B)

TECHNICAL DATA (All values @ 25 °C)	
Solids by volume	75 ± 5 %
Specific Gravity of Mixed System	1.55 (Kg / litre)
Recommended Thickness	125 – 250 microns per Coat.
PROCESSING PROPERTIES (Under standard lab conditions)	
Mix Ratio of R : H (by Weight)	5 : 1
Pot life	50 - 75 minutes (250 grams mix)
Tack free time (500 microns @ 25°C)	6 - 8 hours
Dry to Recoat	10 - 12 hours
Maximum recoat time	18 - 20 hours
Post cure time	24 hours

### COVERAGE:

The theoretical coverage of Fo-Poxy (SP4 Coat) is approximately 900 square feet / 24 Kgs Set @ 125 micron thickness.

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### MIXING:

Mixing ratio is 5:1 by weight. Add 5 part of Base (A) to 1 part of Hardener (B). Mix gently the Side A (base) using a heavy duty slow speed drill fitted with a mixing paddle or commercially available paint mixers. Add side B (hardener) to side A and mix it thoroughly until a streak free homogeneous colour is obtained. Mix quantity only that can be used within pot life.

### APPLICATION:

This product can be applied by dedicated airless spray gun, brush, roller or trowels depending on the volume and project size.

Airless Spray : An airless Pump 35:1 or higher is recommended with Pressure of 3000 psi minimum.

Brush : Nylon / Polyester or Natural Bristle.

Roller Cover : 3/8" woven with solvent resistant core.

Plural Component Spray : Acceptable

Application Conditions : Surface Temperature should be minimum 45°F, below which you may require to heat the substrate as well the material; and maximum 140°F.

Surfaces must be sound, dry, clean, free of oil, grease, dirt, mildew, and other foreign substances. Abrasive blast cleans the substrates to Sa 2½ BS 7079: Part A1: 1989 (ISO 8501-1: 1988). The average surface profile to be in the range 75 µm. Manually prepared surfaces should be to a minimum standard of St 3 BS 7079: Part A1: 1989 at the time of coating. The concrete shall be thoroughly cleaned to remove all dirt, oil & other contaminants, as per SSPC SP-13. NACE 6/SSPC- SP-1.

### STORAGE:

Eighteen months in factory delivered, unopened drums. Keep away from extreme heat, freezing, and moisture. Store indoors at 50°F (10°C) to 104°F (40°C).

### CHEMICAL RESISTANCE:

The following chart is the results of product immersed in chemicals and tested as per ASTM D 3912.

Chemicals	Resistance	Chemicals	Resistance
Hydrochloric acid 10 %	R	Methanol,Ethanol,Butanol	R
Sulphuric Acid 10%	R	Xylene, Toluene (Ambient)	R
Citric Acid	R	Carbon Dis sulphide	R
Acetic Acid 10%	R	Refined Petroleum products	R
Ammonium Hydroxide 10%	R	Sewage, Waste water	R
Crude Oil, JetFuel,	R	Motor Oil, Lubricants	R
Gasoline, Kerosene, Diesel	R	Sea water, Deionized water	R

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