

# Cipoxy CR 90

## A Novalac epoxy coating (vertical wall)

Novalac is a multi functional high cross link density epoxy matrix, where as the conventional epoxy is based on di-functional Bisphenol A technology. Because of its high cross link density, Cipoxy CR 90 is the best bet for chemical, solvent and heat resistance among all Cipoxy range of products. Cipoxy CR 90 is a high solids novalac epoxy coating for concrete, masonry or steel where chemical and thermal protection is required.

### Uses

Cipoxy CR 90 is designed for service in harsh chemical environments like

- ETP / STP tank
- Paper plant
- Petrochemical environment

### Key features

- Excellent chemical resistance
- High temperature resistance
- Cures at low temperature
- Excellent solvent resistance
- Improved wear resistance

### Properties

Type	: Novalac epoxy	Mixing ratio	: 2 : 1 by volume
Finish	: Clear glossy	Colour	: Clear
Pot life @ 27°C ASTM D 2471	: ≥ 90 min	Solids content by wt ASTM D 2369	: 88%
Drying time ASTM D 1640		Recommended DFT ASTM D 7091	: 150 microns
Surface dry	: ≥ 30 minutes	Application	: By roller/ spike roller
Tack free dry	: ≥ 4.30 hrs	Shelf life	: 12 months in the unopened container
Hard dry	: ≥ 24 hrs		
Recommended thinner	: PUT 502 (Clean up)		

## APPLICATION INSTRUCTIONS

### Surface preparation

The long-term durability of the applied Cipoxy CR 90 is dependent upon the adhesive bond achieved between the material and substrate. It is most important therefore, that substrate surfaces are correctly prepared prior to application. All substrates should be sound and free from any contamination, i.e. free from rusting, oil and other contaminants.

### Priming

Concrete substrates to be treated with Cipoxy CR 90, should be primed with Cipoxy 11 / 23 as the primer. The primer should be mixed in the proportions supplied by adding the entire contents of Hardener can to the Base can. Once mixed the material should be immediately applied in a thin, continuous film using stiff brushes or rollers. Over application and puddles should be avoided.

### Mixing & Application

Cipoxy CR 90 Resin and hardener is supplied separately. Mix the resin and hardener in the recommended ratio of 2 : 1 by volume with a low speed drill for atleast 2-3 minutes. Accurate mix ratio is critical for performance and cure. Apply by brush, spray or roller. It can also be sprayed with airless or conventional spray. Allow to cure for 6-7 hours. Re-coat within 24 hours. Full chemical cure needs 7 days.

**Note :** The typical physical properties given above are derived from testing in a controlled laboratory environment. Results derived from testing field-applied samples may vary, dependent on actual site conditions

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## Chemical resistance

Excellent resistance is observed against distilled water, detergent solutions, alkalies and acids. Chemical spillages should always be wiped up as quickly as possible and not be allowed to concentrate up by evaporation. The data on the list of the chemicals found resistant to this product during our lab study is available on request.

Hydrofluoric acid (40%)	:	NR
Hydrofluoric acid (20%)	:	R
Sulphuric acid (58%)	:	RS
Sulphuric acid (18%)	:	RS
Hydrochloric acid (35%)	:	R
Hydrogen peroxide (10%)	:	RS
Hydrogen peroxide (5%)	:	RS
O-Phosphoric acid (50%)	:	RS
O-Phosphoric acid (25%)	:	RS
Nitric acid (70%)	:	NR
Nitric acid (10%)	:	RS
Potassium hydroxide (50%)	:	R
Potassium hydroxide (10%)	:	R
Acetic acid (70%)	:	RS
Acetic acid (20%)	:	RS
Chromic acid (Concentrated)	:	R
Methyl ethyl ketone	:	R
Xylene	:	R
MIBK	:	R
Ethyl acetate	:	R
Butanol	:	R
Acetone	:	R

Note :

R : Resistant

RS : Resistant with stain

NR : Not resistant

## Packaging and theoretical coverage

Cipoxy CR 90 is available in 20 litre packings and has a maximum shelf life of 12 months in the unopened container. 1 litre will cover 5.5 sqm at 150 microns thickness.

## Storage and handling

The product should be stored in accordance with national regulations. It should be kept in a cool, well ventilated area, away from heat, direct sunlight, sparks and children. Handle with care.

## Health and safety precautions

Please refer to MSDS. Observe reasonable care and employ ordinary hygienic principles such as washing the hands with soap and water before eating or smoking. It is recommended to wear gloves, goggles and nose masks while application. In case of splashes on the skin, dampen the cloth with thinner PUT 503 and wipe the hands with the cloth. Wash then with soap and water. Dried film is non toxic. In case of contact with eyes, rinse with plenty of water and seek medical advice. In case of continuous exposure to vapour, the applicator should be immediately moved to get fresh air. The disposal of excess or waste material should be carried out in accordance with the local legislations.

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