

# COAL TAR EPOXY NF-114-CT

Curing Agent: NF-114-CT-CA

## Description

**Nilifam-114-CT** is a high-build, modified, two-component coal tar epoxy paint, which cures to a coating with highly resistance to seawater, splashes of mineral oils, limited resistance to a number of aliphatic hydrocarbons, and good resistance to abrasion and impact.

**Nilifam-114-CT** As a self-priming coatings for long term protection of steel and concrete in severely corrosive environment like emersion and buered structthers and crude oil tank lining.

## Recommended use

### Adhesion

Excellent to both primed & grit blasted and manually prepared steel surfaces.

### Corrosion Resistance

Excellent on correctly prepared steel surfaces and primed surfaces.

### Temperature resistance

Dry: Maximum 90°C

Wet: Maximum 45°C

## Physical properties

### Colors/Shade No

Black

Brown

### Finish

SemiFlat

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### Solid Volume %

55±2

50±2

### Theoretical spreading rate

5.5 m<sup>2</sup> /lit-100 Mic.

5 m<sup>2</sup> /lit-100 Mic.

231 sq.ft./US gallon

209 sq.ft./US gallon

### Flash point

26 °C

26 °C

### Specific gravity

1.5 kg/lit-12.6 lbs/US gallon

1.4 kg/lit-11.7 lbs/US gallon

### V.O.C.

Max. 260gr/lit

Max. 250gr/lit

### Shelf life

1 Years (25°C/77°F) from time of production. Depending on storage condition, mechanical stirring may be necessary before usage.

## Application details

### Mixing ratio (by weight)

Component A NF-114-CT

Component B NF-114-CT-CA

5

1

### Pot life

5 hours (20°C / 68°F)

## Conditions

Do not apply when relative humidity exceeds 80% or when the surface to be coated is less than 3 °C above the dew point.

### Method

Airless sprays

Brush (touch-up)

### Thinner (max. vol.)

NF-T-1 (10-30%)

NF-T-1 (5%)

### Spray setting

### Pump ratio minimum

48:1

### Tip size

0.023"–0.025"

### Tip pressure

200 bar/2900 Psi

(Airless spray data are indicative and subject to adjustment)

### Cleaning of tools

NF-T-1

### Indicated film thickness, dry

55 microns

### Indicated film thickness, wet

100 microns

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## Drying and Curing Times at (20°C)

Dry to touch	3-4 hours
Hard dry	7 hours
Full curing	7 day
Recoat interval, Min	8 hours
Recoat interval, Max	2 days ,see Remarks

## Application And Curing Conditions

**New steel** Steel surface should ideally be abrasive blast cleaning to minimum Sa 2½. The surface must be completely clean and dry prior to application. And its temperature must be at least 3°C above the dew point to avoid condensation.

**Primed surfaces** The surface should be stable, firm, dry and free of dust, sand, loose old paint, dirt, grease and oil. It is recommended to apply mid coat before exceeding maximum interval of primer.

## Remarks

**Recoating Coat** Coal tar epoxy NF-114-CT or NF-114-M4 or NF-114-M10.

**Subsequent Coat** None.

**Film thickness** May be specified in another film thickness than indicated depending on purpose and area of use.

This will alter spreading rate and may influence drying time and recoating intervals. Normal range is 100-150 microns/4-6 mils.

**Thinning** The type and amount of thinner depend on application conditions, application method, temperature, ventilation, and substrate. Thinner NF-T-1 is recommended in general.

**Recoating and drying/curing time** Recoating intervals related to later conditions of temperature:  
(125 micron/5 mils dry film thickness of NF-114-CT)

Physical data versus temperatures:					
Surface temperature		5°C/41°F	10°C/50°F	20°C/68°F	30°C/86°F
Dry to touch approx.		24 hours	12 hours	4 hours	2.5 hours
Resist condensing humidity/ light showers after		4 days	2 days	7 hours	6 hours
Fully cured		20 days	14 days	7 days	5 days
Recoating interval with epoxy top coats	Min	30 hours	16 hours	8 hours	3 hours
	Max	7 days	4 days	2 days	36 hours

A completely clean surface is mandatory to ensure intercoat adhesion, especially at long recoating intervals. Any dirt, oil, and grease have to be removed, e.g. with suitable detergent.

Salts should be removed by fresh water hosing. To check an adequate quality of the surface cleaning a test patch is recommended before actual recoating.

## Safety

Handle with care. Before and during use, observe all safety labels on packaging and paint containers, consult Nilifam material safety data sheets and follow all local and national safety regulations. Harmful or fatal if swallowed; immediately seek medical assistance. Avoid inhalations of possible solvent vapors or paint mist, as well as paint contact with skin and eyes. Apply only on well-ventilated areas and ensure that adequate forced ventilation exists when applying paint in confined spaces or when the air is stagnant. Always take precautions against the risks of fire and explosions.