

# POLYURETHANE VARNISH

## NF-242

Curing Agent: NF-242-CA

### Description

**Nilifam 242** is a two-component, gloss acrylic polyurethane coating with good gloss and color retention.

**Nilifam 242** As a finishing coat for protection of structural steel in severely corrosive atmospheric environment, where light-fastness and gloss retention are required. Minimum temperature for curing is -10°C/14°F.

### Recommended use

#### Adhesion

Excellent to primed surfaces.

#### Weather Resistance

Excellent on correctly prepared and primed steel surfaces.

#### Temperature resistance

Dry: Maximum 120 °C. At service temperatures above 100°C/212°F, slight discoloration may be expected.

### Physical properties

#### Colors

Clear

#### Finish

Full Gloss

#### Solid Volume%

34±2

#### Theoretical spreading rate

11.3 m<sup>2</sup>/lit-30 Mic.  
476 sq.ft./US gallon-1.9 mils

#### Flash point

32 °C

#### Specific gravity

1 kg/lit-8.4 lbs/US gallon

#### V.O.C.

Max. 650gr/lit

#### Shelf life

1 Year (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-242

Component B NF-242-CA

**4**

**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-2 (10%)

NF-T-2 (5%)

#### Spray setting

#### Pump ratio minimum

30:1

#### Tip size

0.017"–0.019"

#### Tip pressure

150 bar/2100 Psi

(Airless spray data are indicative and subject to adjustment)

#### Cleaning of tools

NF-T-2

#### Indicated film thickness, dry

35 microns

#### Indicated film thickness, wet

100 microns

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### Drying and Curing Times at (20°C)

<b>Dry to touch</b>	6 hours
<b>Hard dry</b>	24 hours
<b>Full curing</b>	7 days
<b>Recoat interval, min</b>	16 hours
<b>Recoat interval, max</b>	None , see REMARKS

### Remarks

PRECEDING COAT: None.

SUBSEQUENT COAT: None.

Colors : Certain lead-free red and yellow colors may discolor when exposed to chlorine-containing atmosphere. Leaded colors may become discolored when exposed to sulfide-containing atmosphere.

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 30-40 microns/1.2–1.6 mils.

Thinning: The type and amount of thinner depend on application conditions, application method, temperature, ventilation, and substrate. Thinner NF-T-2 is recommended in general.

Recoating and drying/curing time: Recoating intervals related to later conditions of temperature: (40 micron/1.6 mils dry film thickness of NF-232)

Physical data versus temperatures:						
Surface temperature		-10°C/14°F	0°C/32°F	10°C/50°F	20°C/68°F	30°C/86°F
Dry to touch approx.		3 days	36 hours	16 hours	6 hours	4 hours
Resist condensing humidity/light showers after :		7 days	3 days	32 hours	16 hours	12 hours
Fully cured		2 months	32 days	14 days	7 days	5 days
Recoating interval with NF-232	Min	6 days	3 days	32 hours	16 hours	12 hours
	Max	None	None	None	None	None

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 to 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.