

## Technical Information

# Nitro Effect VARNISH

## Product description

**NITRO EFFECT VARNISH** is a top coat with a special effect (hammer), based on alkyd resins, nitrocellulose, quality pigments, additives and organic solvents.

Features:

- Quickly dries
- Special effect (hammer effect)

## Purpose

It is used for decorating and repairing metal surfaces made of iron (haberdashery, cabinets, tools, machines, safes) in a mild environment without the presence of aggressive corrosion agents in the interior and exterior. It is applied in the system with NITRO METAL PRIMER. 1-2 layers of NITRO PRIMER METAL are recommended and 1-2 layers of NITRO EFFECT VARNISH.

## Surface preparation

### Metal (iron and steel) surfaces

Remove the corrosion mechanically, and remove the fat and other impurities using Nitro thinner.

If corrosion is removed with phosphoric acid-based agents, rinse the surface thoroughly with water, dry and then apply paint, as cleaning agent residues prevent drying.

The base coat must be dry, clean and degreased. If the coating interval is longer than 24 hours, the base coat surface must be lightly sanded before applying the top coat.

### Renewal of old coatings

We clean and sand the undamaged coatings, and completely remove the damaged parts. Make a test on a smaller part of the old coating and check the compatibility with the old coating.

## Working conditions

- Air temperature +10°C - +35°C
- Relative air humidity from 20% to 80%
- The surface temperature must be at least 3°C above the dew point.

## Instructions for application

Stir the coating well before use.



### PNEUMATIC SPRAYING

Working viscosity:

25 – 35 s, Ø 4 mm, 23°C

Dilution:

Up to 20% weight

Nozzle diameter:

1.3 – 1.5 mm

Air pressure:

0.3 – 0.5 MPa

### BRUSH / ROLLER

Only suitable for small surfaces and local repairs

Dilution:

Up to 10% weight

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Note

Used in a product system with:

**NITRO METAL PRIMER**

The technical data are given in order to achieve optimal results by using products manufactured by HELIOS Srbija a.d. Contact our technical service for any additional information. The manufacturer reserves the right to make changes.

Technical data

Type of binder:	Nitrocellulose and alkyd resin
Method of application:	Pneumatic spraying, brush, roller
Viscosity (DIN 53211):	80 – 100 s (Ø 4 mm, 23°C)
Specific weight:	0.96 – 1.00 kg/l
Shades:	10 standard shades
Weight dry matter:	35 ± 3%
VOC:	B(e), 840 g/l; the product contains max. 750g/l
Temperature resistance:	
• Short-term	80°C
• Long-term	60°C
Recommended dry film thickness:	40 µm in one layer
Max. thickness of wet film:	160 µm in one coat
Max. thickness of dry film:	60 µm in one application
Theoretical yield of the coating:	6 - 8 m <sup>2</sup> /l depending on the method of application
• For 40 µm dry film	
Drying (T = + 20°C, rel. hum. 65%):	
• To dust	3 - 5 min
• To touch	20 - 30 min
• Completely dry	24 hours
In conditions of lower temperature and higher relative humidity, the drying time is extended.	
Coating interval:	
• Recommended	24 hours
• Minimal	20 min by pneumatic spraying, 6 hours by brush or roller without restrictions
• Maximum	
Thinner:	NITRO Thinner
Packaging:	0.75 l
Storage and shelf life:	Originally closed product, stored in a dry place, protected from direct sunlight (+ 5°C to + 25°C) is usable for 60 months.