

Technical Information

Nitro Metal PRIMER

Product description

NITRO METAL PRIMER is a one-component, fast-drying coating based on alkyd resins, nitrocellulose, anticorrosive pigments, fillers and organic solvents.

Features:

- Quickly dries
- It covers well and adheres well to metal surfaces
- Protects against corrosion

Purpose

It is used as a primer in the system with NITRO ENAMEL for the protection of metal surfaces made of iron and steel structures in a mild environment without the presence of aggressive corrosion agents. A system of 1-2 layers of NITRO METAL PRIMER is recommended and 1-2 layers of NITRO ENAMEL. It can also be used independently for temporary protection.

Surface preparation

Metal (iron and steel) surfaces

Remove the corrosion mechanically, and remove the fat and other impurities using NITRO thinner. If the corrosion is removed with phosphoric acid-based agents, rinse the surface thoroughly with water, dry it and then apply the paint, because the residues of the cleaning agent have a bad effect on the drying and adhesion of the paint.

Renewal of old coatings

Clean and sand undamaged coatings, and completely remove damaged parts. Make a test on a small part of the old coating and check 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:

30 – 40 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

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 ENAMEL
NITRO EFFECT VARNISH
DURLIN WOOD AND METAL ENAMEL
DURLIN RADIATOR ENAMEL
DURLIN ANTIQUE ENAMEL

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):	180 – 240 s (Ø 4 mm, 23°C)
Specific weight:	1.18 - 1.22 kg/l
Shades:	Grey and oxid red
Weight dry matter:	72 ± 3%
VOC:	A(i), 500 g/l; the product contains max. 500g/l
Temperature resistance:	
<ul style="list-style-type: none"> Short-term Long-term 	<p>80°C</p> <p>60°C</p>
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 coat
Theoretical yield of the coating:	
<ul style="list-style-type: none"> For 40 µm dry film 	8 - 10 m ² /l depending on the method of application
Drying (T = + 20°C, rel. hum. 65%):	
<ul style="list-style-type: none"> To dust To touch Completely dry 	<p>3 - 5 min</p> <p>20 - 30 min</p> <p>24 hours</p>
In conditions of lower temperature and higher relative humidity, the drying time is extended.	
Coating interval:	
<ul style="list-style-type: none"> Recommended Minimal Maximum 	<p>24 hours</p> <p>20 min by pneumatic spraying, 6 hours by brush without restrictions</p>
Thinner:	NITRO Thinner
Packaging:	0.75 l; 5 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.