



Technical Data Sheet

NM Stålprimer 270

Utg: 1996-02-28

Ers: 2021-10-25

Rev: 2024-04-15

General Description

NM Stålprimer 270 is an epoxy-based solvent-containing iron oxide primer that meets the requirements of TRVKB 10, Sealing layer on bridges, table 4 (*Tätskikt på broar, tabell 4.18*).

NM Stålprimer 270 is tested in accordance with SS-EN ISO 9227:2022, Corrosion tests in artificial atmosphere (including salt spray test for 870 hours) without comments.

Use

With qualified anti-rust treatment, it is of the utmost importance that the primer layer has good adhesion to the substrate. **NM Stålprimer 270** is specially formulated to achieve the greatest possible adhesion to steel and aluminium.

Processing Instructions

A newly grit-blasted steel surface is generally a good substrate, but within a few minutes the iron is attacked by moisture and air pollutions. This thin layer of iron salts will affect the adhesion of a solvent-free epoxy system in a negative way.

Oil or grease originating from compressor Air or skin contact etc. will contaminate the surface. This thin layer of oil or grease will affect the adhesion. To obtain good adhesion the primer has to contain a solvent that can dissolve oil and grease and transport the contaminations into the primer.

A newly sanded aluminum surface immediately reacts with the oxygen in the air and creates a surface of aluminum oxide. To obtain optimal adhesion it may be necessary to "hone in" **NM Stålprimer 270**, with e.g. a wet sandpaper 180 grit.

Application

NM Stålprimer 270 is applied with a roller or brush. In cramped or closed spaces, it may be necessary to use a fresh air mask or good ventilation.

For optimal adhesion, **NM Stålprimer 270** must be matted before the next layer is laid.

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Quality certified since 1990

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Typical Properties

Resin	NM Stålprimer 270
Hardener	NM Härdare 271
Mixing ratio	
Resin – Hardener	100 – 20 by weight
<i>Density:</i>	1290 kg/m ³
<i>Viscosity:</i>	0.6 Pa·s
<i>Dry content:</i>	92%
<i>Adhesion to grit blasted steel plate¹:</i>	>8.5 MPa
<i>Adhesion to grit blasted steel plate³:</i>	20 MPa
<i>Vidhäftning till blästrad steel plate⁴:</i>	10 MPa
<i>Degree of blistering⁵:</i>	0(s0)
<i>Degree of rusting⁶:</i>	Ri0
<i>Corrosion at scribe⁷:</i>	0 mm
<i>Pot life 100g 20°C:</i>	45 minutes
<i>Minimum curing temp:</i>	+5 °C
<i>Curing time*², 18h, 23°C:</i>	4 MPa
<i>T_g:</i>	45°C
<i>Colour:</i>	Light grey
<i>Consumption:</i>	about 0.15 kg/m ²
<i>Packaging sizes</i>	0.54 kg 5.40 kg
<i>Cleaning solvent:</i>	Acetone

*¹TRVKB 10, Tätskikt på broar, tabell 4.18

*² TRVKB 10, Tätskikt på broar, tabell 4.17

*³ SS-EN ISO 4624:202, before salt spray

*⁴ SS-EN ISO 4624:202, after salt spray, adhesive failure between substrate and first coat.

*⁵ SS-EN ISO 4628-2:2016

*⁶ SS-EN ISO 4628-3:2016

*⁷ SS-EN ISO 4628-8:2016

Note

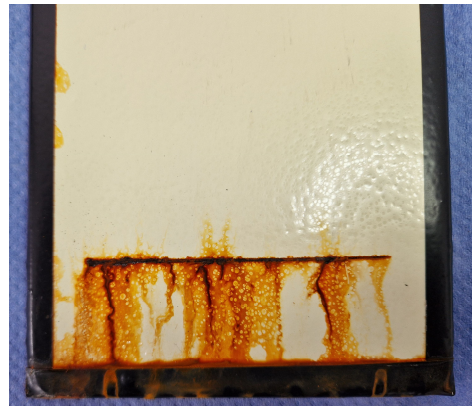
Quality assurance:

In order to assure the quality of application, we have a form where important information is documented. The form is available from Nils Malmgren AB, telephone +46 303 936 10

Disclaimer

This product's technical specifications are developed by experience in field and laboratory by us. Fully cured will take place at seven days at +23°C and 50 % RF.

We reserve the right to change products as well as data. Current data sheets are available at our website and with us. We cannot assume responsibility for use in areas that we do not know. The user shall always evaluate products for their intended use and we guarantee only the material properties. For every product we offer reference objects separately.



Sample after 870 hours of salt spray exposure.
Only rust precipitation from scribe.
Otherwise fully protected.

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