

## Description

Double-packed epoxy primer.

Used as a primer layer in the complex system with the NEFTECOR enamel. The material is thixotropic, has a low content of organic thinners, allows to obtain a thick-layer coating. The coating is resistant to short-term acid solutions attack.

The complex coating – NEFTECOR orange primer with NEFTECOR white enamel – is applied for contact with light oil products (aviation fuel).

## Recommended use

Anticorrosive protection of steel surfaces operated under the influence of crude oil, aviation and automobile fuels, lubricating oils, diesel fuel, kerosene, fuel oil, fresh, sea, "bottom-up" water, alkali solutions.

It is used in a complex coating with the NEFTECOR enamel for painting of oil storage tanks, light and dark petroleum products, pipelines, and other metal structures used in aggressive conditions.

It is used to protect the metal structures used in the soil, immersed in various liquid media.

## Certificates, approvals

Certificate of State registration No. RU.77.01.34.008.E.002295.08.18 dated 28.08.2018.

The NEFTECOR coating system has the decision of All-union Pipeline Construction Scientific and Research Institute, FGUP State Research Institute of Civil Aviation.

The coating system is included in the TD "Technical Requirements for Protective Coatings" of Mondi Syktyvkar Forest-Industry Complex, JSC.

## Technical data

Coating color	Orange, gray
Coating gloss	glossy
Primer density g/cm <sup>3</sup>	1.4±0.1
Enamel viscosity	Thixotropic
Pot life after mixing at temperature (20±2)°C, h	8, not less than
Non-volatile matters	
by volume, % (volume)	71±3
by mass, % (mass)	82±3
Drying time to 3 degree (GOST 19007), at temperature (20.0±2)°C, h	24, not more than
Dry film thickness, µm	100-180
Wet film thickness, µm	140-260
Theoretical spreading rate of one-layer coating, g/m <sup>2</sup>	190-350

## Surface preparation

- degrease the metal surface to 1 grade according to GOST 9.402;
- clean the surface with abrasive blasting from scale and corrosion products to a degree not lower than 2 according to GOST 9.402 (not lower than Sa 2 ½ according to ISO 8501-1) with an angular, sharp surface profile.
- remove the dust from the surface.

Reducing the surface cleaning degree and deposition on a smooth surface without roughening is not allowed.

Before applying the second layer and before applying the NEFTECOR enamel, the coating should be dry, clean and free of oil and dust.

## Application

- mix the base to a homogeneous condition before application;
- add a hardener to the enamel base with constant stirring and mix thoroughly.

Mass ratio of the base: hardener:

– for orange color 100:19 hardener EN-05;

– for gray color 100:13,3 hardener EN-14;

- dilute to the working viscosity, if required.

When organizing painting work, it is necessary to take into account the decrease of the pot life of working mixture (after mixing the components) with increasing temperature.

The material is recommended to be applied in the factory and field conditions:

- orange color at a temperature of plus 5 to plus 35 °C and relative air humidity no more than 85 %;
- gray color at temperatures from minus 5 to plus 35 °C and relative air humidity no more than 85%.

The temperature of the surface to be painted must be at least 3 °C above the dew point.

The primer prepared for application must have a temperature of at least plus 15 °C.

It is recommended to apply 1-2 layers by airless spray, brush/roller.

Recommended methods of application:

**Airless spray**

Recommended thinner	SOLVIN-12 (TU 20.30.22-014-67503963-2018)
Quantity	up to 5% by mass
Pressure	15-22 MPa (150-200 bar)
Nozzle diameter	0.015"-0.021" (0.38-0.53 mm)

**Brush**

Recommended thinner	SOLVIN-12
Quantity	up to 5 % by mass

**Equipment cleaning**

SOLVIN-12,  
thinners 646, P-4

Drying of the coating is natural. Intermediate drying between primer layers and NEFTECOR enamel at a temperature of plus 20 °C – not less than 24 hours.

The holding time of the NEFTECOR coating system before the operation in aggressive environments is not less than 7 days, at a temperature of plus 20 °C.

**Storage and handling**

The material is delivered in packages: the base and hardener packed in metal buckets and metal cans respectively depending on the set weight.

Storage conditions – according to GOST 9980.5 (at air temperature from minus 40 to plus 35 °C). The container with the material components shall be stored away from heat sources, protected from atmospheric condensation and direct sunlight.

The shelf life is determined by warranty storage of the base (24 months) and hardener (specified in quality certificate) starting with the manufacture date.

**Precautions**

When working with the primer, one shall observe the existing sectoral standard norms and requirements and safety measures as specified on the package label.

Personal protective equipment (goggles, face masks and respirators) shall be used, inhalation of thinners and contact of the composition or its components with skin, ocular mucosa, respiratory channels shall be avoided; use inside the premises is allowed only in case sufficient ventilation is provided.

The material and its components (base and hardener) are classified as fire-hazardous materials!

*The information is of general character, without consideration to the object specific nature. Use of materials for other purposes not specified here or in case other influencing factors are present shall be approved by the VMP Holding CJSC in writing. In case of absence of such approval the manufacturer is not held liable for the improper use of the material and the buyer falls from the right to present claims connected with the coating quality.*



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