



Epoxy primer Defens EP 03 (2K)

DEFENS™

Description

A two-component epoxy primer that contains anti-corrosion pigment and is curable by polyamide hardener. Epoxy resins and polyamide hardener provide high mechanical properties of the formed coating and a long service life.

Purpose and designated area

Highly-efficient anti-corrosive epoxy primer is used in anti-corrosion protection systems for non-corrosive coating of metal structures, reservoirs, bridges, pipelines, automobiles, machine tools, outfits, railway, sea- and river-going transports.

Due to a high degree of inertia of the fillers used, it can be used as a primer layer in anti-corrosion protective systems for objects operating in aquatic, acidic, alkaline environments, as well as for protection of tankers of light and dark oil products. The primer is capable to withstand considerable cyclical fluctuations in temperature.

It serves as a primer in anti-corrosion protection systems according to the ISO 12944-5:2018 standard.

It is designed for priming metal with a long service life. The primer has increased adhesion to metal surfaces.

It can be applied by air and air-free methods of dispersing, as well as with a roller and brush.

It is recommended for primary and maintenance painting with a long service life of railway rolling stock, highway transport, farm machinery, painting of bridges, steel and reinforced concrete structures, tankers, chemical and petrochemical industries equipment, harbor and dock-side installations, sea- and river going vessels.

Specifications

Name of indicator and unit of measurement	Indicator value
Physical form of the coating	Self matt surface without any impurities, bits and pin holes
Non-volatile matter content, %, not less	60
Conditional viscosity by viscometer VZ-246 with nozzle diameter 4 mm at temperature (20 ⁰ C) , s	not less 20
Component ratio, by weight (A:B)	100:10
Pot life of the mixture, at (20,0±0,5)°C, hours, not less	24
Density at temperature of (20±0,5) °C, g/cm ³	1,3-1,5
Milling degree, μm, not more	25
Adhesion, points, not more	1
Flexural resistance, mm, not more	2
Impact strength, cm, not less	50
Recommended coating thickness, μm	80-120
Drying time: until aftertack at (20,0±0,5)°C, h, not more	4
to degree 3 at (20,0±0,5)°C, h, not more	8
Resistance to the exposure to: - sea water, days(20 °C,) not less - water, days(20 °C,) not less	5 5
Resistance to the exposure to 3% sodium chloride, days(20 °C,) not less	5

Requirements to the base

The metal surface should be dry, free of rust, debris, dust, oils, fats and other contaminants that may act as separators. If necessary, handle the base with a sand- and bead-blasting method to degree Sa 2-2,5 (ISO 8501-1:2007). After cleaning, the steel or galvanized surface should be removed from dust and degreased.

Application

Before applying and after mixing the components, the primer should be thoroughly mixed for at least 5 minutes until an even consistency is obtained. Apply it on the prepared base by air or air-free methods of dispersing, as well as with a roller or brush. To obtain the material of necessary application viscosity, it is possible to add the mixed solvent Defens. The surface to be painted should be dry and have a temperature of a 3 °C above the dew point. Recommended number of layers is 1-2. Perform the work control in accordance with the ISO 12944-7:2017 standard..

In the process of working, it is necessary to stir the mixture every 30 to 45 minutes to avoid delamination of the materials.

Package and storing

The material is stored in a tightly closed packaging at a temperature from 0 up to +30°C, away from moisture and direct sunlight, heat sources. Warranted storage life is 12 months from the date of production without violation of storage conditions. Slight delamination is allowed during the long-term storage, but it does not affect the quality of the material.

Tool cleaning

Work tools and facilities are washed with the solvent P-4 immediately after their usage.

Protective measures

This product is intended only for professional use in industrial facilities in accordance with recommendations given here, as well as safety directions provided to customers along with paint containers. All work, including the application and usage of the product, must comply with Health, Safety and Environmental requirements, all regional standards and instructions.

When painting use personal protective equipment, avoid of getting in eyes, respiratory tracts and on skin. Keep away from open flame.

Exception

The information given in this list is not designed to be exhaustive and any person applying the product for any other purpose not reflected in this list without receiving our written confirmation on its suitability does so at their own risk. We try to ensure that all recommendations regarding the product (in this or that list) are correct, but we cannot control the quality and condition of the surface to be painted, as well as take into account the influence of many other factors impacting on the way the product is used and applied. Therefore, if we in written form certainly disagree to do so, we are not responsible for whatever and whichever way it happens due to the product usage or for any loss or damage caused by the product usage. The information given in this list in the light of our experience and policy of continuous product development is subject to change from time to time. The responsibility of the user is to verify before applying the product that this list is currently valid.