



Alkyd-urethane enamel Defens AL.UR-11(1K)

DEFENS™

Description

A single-component fast-drying weatherproof enamel of the basis of alkyd-urethane varnish.

The coating consisting of **Defens AL.UR-01 base coating and Defens AL.UR-11 enamel is an optimal budget system for anti-corrosion protection in a mild climate.**

Purpose and designated area

It is used a final weatherproof coating. It provides a splendid appearance and excellent corrosion protection on steel surfaces. The enamel dries very quickly and withstands atmospheric actions. You can apply up to 80 microns of the dry film without formation of laps. Formed coating is resistant to salt water, mineral oils, sunlight.

It is also used for finish painting of railway rolling stock, containers for road and maritime transportations, metal and reinforced-concrete building constructions, as well as other objects operated under the condition of moderate corrosive attack of the atmospheric and industrial environments. It is recommended to use as a finishing layer on epoxy, polyurethane and alkyd-modified materials. The service life of the coating is not less than 10 years on condition of appropriate pretreatment and priming of the surface.

It can be applied by air or air-free methods of dispersing, as well as with a roller or brush. Due to the low toxicity of contained solvents, the enamel is easy to apply.

Tinting is possible in any color at the customer's request according to the RAL scale.

Specifications

Name of indicator and unit of measurement	Indicator value
Physical form of the coating	glossy film
Non-volatile matter content, %, not less	50-60
Conditional viscosity by viscometer VZ-246 with nozzle diameter 4 mm at temperature (20 ⁰ C) , s	95-150
Density at temperature (20±0,5) °C, g/cm ³	1,1-1,2
Milling degree, μm, not more	20
Adhesion, points, not more	1
Flexural resistance, mm, not more	2
Impact strength, cm, not less	50
Hardness by the pendulum device TML type (pendulum A), conventional units, not less	0,35
Coverage rate, g/m ² , not more	140
Recommended coating thickness, μm	60-80
Drying time of a layer 30 microns to degree 3 at 25 °C, h, not more	10
Resistance to the exposure to: - water, days, not more	10
Resistance to the exposure to 3 % NaCl, days, not more	10
Approximate consumption of the material when using airless spraying equipment with a coating thickness of 50 μm, kg/m ²	0,170
Reducer	White spirit, xylene

Requirements to the base

Steel and galvanized surfaces. The material is applied to a previously dust-free, degreased, painted or primed in accordance with manufacturer's recommendations steel surface or a prepared (degreased) galvanized surface.

Previously painted surfaces suitable for repainting. Remove impurities (e.g., grease and salts). Surfaces must be dry and clean. Old surfaces with a painting that has exceeded the maximum application time of the next coat should be ground to roughness. Damaged surface areas should be handled in accordance with accepted procedures on how to prepare the base and maintenance operations. Place and time of pre-finishing of the surface for applying the paint should be chosen so that the neat surface remains dry and clean until the next stage of painting the product.

Application

Before applying, the enamel 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 a mixed solvent, white spirit. 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 in accordance with the ISO 12944-7:2017 standard

Package and storing

The paint is stored in a tightly closed packaging at a temperature from -20 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 white spirit 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.