



**LACKPROM**

**ЗАРАБАТА  
МАРКА!**

# **CORROSION PROTECTION SAFETY SYSTEMS**



Corrosion protection - an important point that ensures durability and aesthetic appearance of equipments and facilities

## **Corrosion protection safety systems of LACKPROM PLC are:**

*Variety of uses, types, colors, technique application*

*Universal by relevance*

*Multi-functional in combination*

- EPOXY CORROSION PROTECTION SYSTEM
- PROTECTIVE SYSTEMS FOR GALVANIZED STEEL SHEETS
- ALKYD CORROSION PROTECTION SYSTEM
- ALKYD CORROSION PROTECTION SYSTEM MIOX
- QUICK DRYING ALKYD CORROSION PROTECTION SYSTEM
- PROTECTION SUSTAINABLE CHEMICALS CHLORINE-RUBBER SYSTEM

### **Characterized by:**

- Excellent adhesion to the substrate - adhesion
- Resistance to weathering and UV rays.
- Moisture-and waterproof
- Chemical resistance - impact of solutions of acids, alkalis, salts, oils, petroleum products (solvents, diesel fuel), fats.
- mechanical strength, hardness, elasticity
- Long-lasting and effective protection against corrosion
- Resistant to industrial pollution
- Easy to apply, high coverage, low consumption
- Endurance
- Ensure long lifetime

*The effectiveness of any system for corrosion protection depends on the following several mandatory factors:*

- *Initial surface condition;*
- *The quality of the coating material*
- *The procedures of application, access to application and environment in which the application of the protective system.*
- *Preparing the surface - is the most important basic step of processing the steel base, prior to application of any coating and important factor for the quality of corrosion protection.*

*When laying the protective coating is required paint and painting materials to fit tightly to the surface. Residual mill scum on the steel surface is unfavorable basis for application of modern, high-tech protective coatings and should be removed by sandblasting (processing).*

*Unwanted is the presence of other contaminating the surface of rolled steel tools such as oils and grease. They also must be removed before the process of sandblasting.*

*In the process of preparing the surface should not only be cleaned steel, but also to obtain a suitable profile for the application of protective coating.*

- Possibility for easy maintenance and restoration of damaged areas in implementing future inspections are required within the lifetime

High performance, both individual products and the system as a whole.

- Corrosion protection systems are suitable for use in various thicknesses, areas and volumes, and repairs;
- Coatings have optimum viscosity at different temperatures to obtain the desired thickness of the wet and dry film. This is achieved with a minimum number of layers.

- **Provide / quality control of production**

Each product or system meets the well-defined standards for security and quality control in manufacturing, **LACKPROM PLC** produces according standard EN ISO 9001.

## **CORROSION PROTECTION SYSTEM** **For the storage tanks of petroleum** **OUTDOORS**

**First layer**

**Second layer - Intermediate modified epoxy coating**

**EP - 11 - light green**

**Third layer - Intermediate modified epoxy coating**

**EP-11 - light grey**

**Fourth layer - Acrylic enamel AK-18 / aliphatic polyurethane / RAL 9003 or 9016**

The system is designed for corrosion protection of ferrous surfaces and aluminum - equipment and facilities operated under conditions of active atmospheric corrosion, including conditions of humid tropical climate in littoral and industrial areas.

Characterized by high impact resistance, good elasticity, high-atmosphere, chemical resistance, lasting gloss and maximum reflectance.

**The system was tested by:**

*State control test center „Steel Structures - Laboratory corrosion, corrosion protection coatings and corrosion protection - Protocol № 2-05-002/26.01.2004g. - Cover has passed 600 hours of salt spray impact and temperature changes.*

*Accredited test center construction ITSS - NISI Ltd - Laboratory of Structural Chemistry - Protocol № 847-4-194/22.12.2003g.*



# EPOXY CORROSION PROTECTION SYSTEM

*tested in an independent accredited laboratory*

Designed for protection of ferrous metal surfaces and structures operating in conditions of atmospheric corrosion and aggressive media. The coating has high mechanical strength, excellent adhesion, flexibility, impact resistance. Resistance to impact of 20% sodium hydroxide solution, 25% sulfuric acid solution at 20°C, resistance to water, oil, diesel fuel and gasoline. Different parts of the system are used in combination with polyamide hardener or amine adducts.

## System components:

**Epoxy Primer EP - 074** - color light green, light gray  
Used in combination with **hardener Lamid 25/40**, weight ratio of 100 parts **primer EP - 074** at 17 parts of hardener.

**Intermediate Coating EP - 11** - color, light green, light gray  
Can be used as a primer. Used in combination with **hardener Lamid** weight ratio of 100 parts of **EP - 11** to 12 parts hardener.

**Epoxy enamel EP - 71** variety of colors to RAL scale  
Used in combination with **hardener DTA-900** by weight 100 parts of enamel to 20 parts hardener / volume ratio at 7:2.

## Drying:

**Epoxy Primer EP - 074** at 20°C - 24 hours

**Coverage interim EP - 11** at 20°C - 18 hours

**Epoxy enamel EP - 71** at 20°C - 18 hours

## Relative Consumption:

Epoxy Primer EP - 074: 11 - 12 m<sup>2</sup>/l; 140 - 160 g/m

Coverage interim EP - 11: 9 - 19 m<sup>2</sup>/l; 120 - 140 g/m

Epoxy enamel EP-71: 10 - 11 m<sup>2</sup>/l; 100 - 120 g/kl



## PROTECTIVE SYSTEMS FOR GALVANIZED STEEL

Designed for surface protection of galvanized steel. The system has good adhesion to galvanized steel, which increases over time, as binders used vinyl and polyester resins.

In new galvanized steel sheet with sufficient thickness of zinc coating can be used only terminating coverage

**HS - 15.** Designed to protect the damaged surfaces of galvanized steel, operating in conditions of atmospheric corrosion.

### System components:

**Primer for galvanized sheet HS - 05** color chartreuse paint for galvanized sheet

**HS - 15** - wide color range including and the RAL scale.

### Drying:

**HS - 05 primer** at 20°C - 4 hours;

**HS - 15** dye at 20°C - 4 hours

### Consumption:

**Primer HS - 05:** 5-6 m<sup>2</sup>/l; 110 - 130 g/m<sup>2</sup>

**Paint HS - 15:** 6 - 7 m<sup>2</sup>/l; 100 - 120 g/m<sup>2</sup>



## PROTECTION SUSTAINABLE CHEMICALS CHLORINE - RUBBER SYSTEM

- Designed for protection of steel structures and facilities under conditions of atmospheric corrosion, acid fumes and temporary action of dilute acids and alkalis.

- Different parts of the system containing active corrosion pigments, fillers and persistent substances with specific action dispersed in solution chlorine-rubber resin

### System components:

**Anticorrosive primer HK - BB - 011** - color reddish brown

**Intermediate chlorine-rubber lacquer HKH - M - 102** - light green color

**Roof chlorine-rubber lacquer HKH - P - 103** - color - white, light gray, green, yellow, black, blue, red

- Preparation of the base and method of application: brush, roller, spraying, so that the total dry film thickness is less than 150 micrometers on a pre-cleaned of rust and grease surface; sequence:

**Anticorrosive primer HK - BB - 011**, after drying lacquer is applied

**Intermediate chlorine-rubber lacquer HKH - M - 102** and after its drying is applied lacquer coating, **chlorine-rubber lacquer**

**HKH - P - 103**; interval overlap at least 8 hours after application of the preceding layer. Recommended Thinner: **Thinner HK - 1** / of

**LACPROM PLC**

### Drying:

**Anticorrosive primer HK - BB - 011** at 20°C - 2 hours;

**Intermediate chlorine-rubber lacquer HKH - M - 102** at 20°C - 5 hours;

**Roof chlorine-rubber lacquer HKH - P - 103** at 20°C - 5 hours

### Consumption:

**Anticorrosive primer HK - BB - 011:** 5 m<sup>2</sup>/l; 120 - 130 g/m<sup>2</sup>

**Intermediate chlorine-rubber lacquer HKH - M - 102:** 5 m<sup>2</sup>/l; 120-130g/m<sup>2</sup>

**Roof chlorine-rubber lacquer HKH - P - 103:** 5 m<sup>2</sup>/l; 120-130 g/m<sup>2</sup>

## ALKYD CORROSION PROTECTION SYSTEM

*tested in an independent accredited laboratory*

- Designed for corrosion protection of ferrous metal surfaces and structures exposed to atmospheric corrosion of active and aggressive environments. The coating has high corrosion protection properties, retains its elasticity at low temperatures to (-20°C).
- Excellent adhesion (adhesion) to various substrates – clean basis, with the presence of rust and old paint on / and high elasticity.
- The system has a high resistance to water and humidity (Continuous condensation), 3% sodium chloride, mineral oil, 5% sodium carbonate solution.

### System components:

**Anticorrosive primer PF - 025** - red brown

**Intermediate coating PF - 11** / alkyd / light gray, light green

**Alkyd top coat PF - 15** variety of colors including and the RAL scale

Recommended thinner: MRT, AMB from **LACKPROM PLC**

### Drying:

**Anticorrosive primer PF - 025** at 20°C - 10 hours;

**Intermediate coating PF - 11** at 20°C - 8 hours;

**Alkyd top coat PF - 15** at 20°C - 17 hours

### Consumption:

**Anticorrosive primer PF - 025** at 20°C - 100 - 140 g/m

**Intermediate coating PF - 11** at 20°C - 100 - 120 g/m

**Alkyd top coat PF - 15** at 20°C - 100 - 120 g/m

## QUICK DRYING ALKYD CORROSION PROTECTION DEKORATIVE PROTECTIVE SYSTEM

Designed to protect surfaces and equipments of ferrous metals, machinery, vehicles, agricultural equipment and other facilities operated outdoors and indoors.

Alkyd corrosion protection system is resistant to distilled water, 0.5% hydrochloric acid, 5% sodium chloride solution, diesel fuel, mineral oils and other aggressive environments.

### System components:

**Corrosion protection alkyd primer quick drying AY - 023**

**Quick-drying alkyd enamel lacquer AY - 14**

Recommended thinner: **Thinner K** from **LACKPROM PLC**.

Primer and enamel paint is applied single-layer, previously diluted with **Thinner K** to working viscosity.

### Consumption:

**Quick - drying alkyd anticorrosive primer AY - 023:**

70 - 90 gr/sq.m

**Quick-drying alkyd enamel AY - 14:** 80 - 100 g/m

[www.lackprom.com](http://www.lackprom.com)

## Technical data

INDICES	ANTICORROSIVE ALKYD PRIMER QUICK DRYING AY - 023	QUICK-DRYING ALKYD ENAMEL LACQUER AY - 14
1. Drying - From dust - на отлеп - full drying of the system	10 min 15 min  2 hours	10 min 25 min  10 hours
2. Acceptable range for application of layer upon layer (ability to cause „wet on wet“)	20 min	25 min

## ALKYD CORROSION PROTECTION SYSTEM MIOX

Designed for corrosion protection of ferrous metal surfaces and structures exposed to atmospheric corrosion active, aggressive environments and in contact with water.

The coating has high corrosion properties, high elasticity, which is kept at low temperature to (-20°C).

Excellent adhesion to different surfaces - clean basis, with the presence of rust and old paint on.

Resistance to water and humidity (Continuous condensation). Protective system has a high resistance to 3% sodium chloride, mineral oil, 5% sodium carbonate and high elasticity.

### System components:

**Corrosion protection primer PF - 025**

**Intermediate coating PF - 11 MIOX**

**Alkyd enamel top coating PF - 12**

Recommended dry film thickness of each layer of the system 40 micrometers minimum system.

Interval of overlap between the layers is at least 24 hours.

The total dry film thickness of the system must be at least 120 micrometers.

### Technical data

INDICES	CORROSION PROTECTION PRIMER PF - 025	INTERMEDIATE COATING PF - 11	ALKYD ENAMEL TOP COATING PF - 12
Colour	RAL 3009	MIOX RAL 7005	RAL 6001 RAL 7001
Drying at 20°C	10	8	24
Consumption g/m <sup>2</sup>	100 - 140	80 - 100	80 - 100



# FIRST COAT - ZINC - EPOXY PRIMER EP - 076

Dries in 2 hours at 20°C.

Applying next film after 24 hours.

Life of the mixture: primer-hardener-diluent: 72 hours at 20°C.

Cost: for dry film thickness 25 micrometres -123 g/m<sup>2</sup>

**Primer EP - 076** and 7g hardener **LAMID 25/40**

**SECOND AND THIRD LAYER** - Intermediate modified epoxy coating **EP - 11** & Intermediate modified epoxy coating **EP - 11** helps to improve the adhesion, assuming the heat deformation of the metal caused by temperature changes. Increases corrosion and chemical resistance of the system.

Consumption of one layer of 60 micrometers DSF - 166g/m<sup>2</sup>

**EP - 11** and 30 g/m<sup>2</sup> **Hardener LAMID 25/40**

Drying time - 18 hours at 20°C

**FOURTH LAYER** - acrylic enamel **AK - 18** / aliphatic polyurethane /

Used with hardener **DN -75** in weight ratio enamel:

**Hardener** = 100: 18.

Drying: at 20°C - 8 hours.

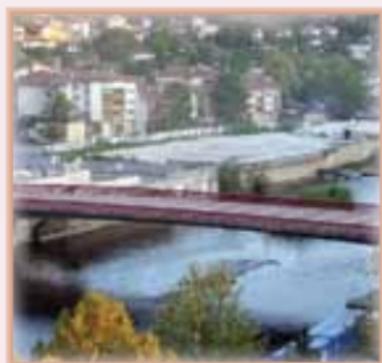
Interval overlap: 24 hours

Dry film thickness per 60 micrometers - at cost 127 g/m<sup>2</sup>.

Acrylic enamel **AK - 18** and hardener **DN - 75** to 23 g/m<sup>2</sup>.

*Water-based corrosion protection systems with a decorative effect of the stock leaf mat and gloss*

*Systems comply with environmental standards, safety of life and human health and the environment.*



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