

**BARVY A LAKY****FORMEX[®] FOR GALVANIZED IRON S2003**

Anticorrosive primer for metal

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Composition Dispersion of inorganic pigments, fillers and zinkphosphate in a solution of alkyd resin and PVC copolymer in organic solvents.

Characteristics and use The product is intended to be used as a primer coating of light metals and iron. It is also suitable for coatings of steel under nitrocellulose and synthetic enamels drying out on air. It is endowed with excellent drying and excellent adhesion to many surfaces.
The product is not intended for coatings that come into direct contact with food, feed and drinking water and for coatings of children's furniture and toys. The product can be used on surfaces that come into indirect food contact.

- ◆ active anticorrosive pigment
- ◆ excellent adhesion to steel and light metals
- ◆ suitable under nitrocellulose and polyurethane enamels

Application area Substrate: steel, iron, aluminium, brass, oxidized zinc
Environment: interior, exterior – according to painting system
Examples: steel structures, door frames, fittings, parapets, eaves, car bodies, sheet roofs, steel castings, cast iron and sheet central heating elements

Shades 0110 medium grey, 0600 grey-green, 0840 russet

Physical properties	Flow time	130 – 180 s (cup Ford Ø 4 mm)
	Weight solids	> 64 %
	Volume solids	44 - 45 %
	Flash point	> 25 °C
	Density	1320 - 1490 kg/m ³

Emission limits	VOC: 0.30 – 0.35 kg/kg	TOC: 0.27 – 0.31 kg/kg
	Product subcategory: A/i	Threshold value (2010): 500 g/l
	Max. VOC content in ready to use state: 499 g/l	

Properties of dried coat	Gloss	degree 4 - 5
	Pendulum hardness / Persoz	up 6 % in 24 hours
	Hiding power	degree 2
	Adhesion with crosshatch test	degree 0

Drying time	Surface temperature	23 °C
	Dust free	< 1 hour
	Dry through	< 24 hours
	Dry film thickness DFT	35 - 40 µm

Spreading capacity	Wet film thickness WFT	80 - 90 µm
	Dry film thickness DFT	35 - 40 µm
	Theoretical spreading capacity	10 - 12 m ² /l per one layer

Thinning BALTECH S6005 (brush, roller), BALTECH C6000 (spraying)

Surface preparation The surface must be clean, dry, degreased, free of rust and dust, mechanically cleaned. Application on galvanized sheet is possible after 12 months of weathering.
First of all the surface must be degreased by means of suitable agent (e.g. BALTECH P6402 Technical benzene, BALTECH P6401 Acetone or, if it is possible, warm pressurized water with detergent). For removing of residues of various salts it is necessary then to rinse the surface with clear water. Rough and sticky impurities must be removed manually or mechanically (grinding, scraping). Possible rust may be removed also manually or mechanically (metal brushes, grinding discs).

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Formerly coated surfaces must be cleaned, degreased and without old non-adhesive paints. It is recommended for providing compatibility of a new paint with the old one to perform a reference coating (painting) of surface - ca 1 m². It is recommended to follow the procedure system according to the technical data sheet.

Application conditions

Minimal air temperature for application is 10 °C, temperature of painted surface must be 3 °C above dew point. Temperature and relative humidity must be measured in proximity of painted surface. The surface temperature must not be higher than 40 °C. Relative humidity must not be higher than 75 %. The optimal temperature is 18 to 23 °C and the relative humidity is 40 to 70 %. Lower temperature and higher humidity during an application and a drying and high thickness of applied coats markedly slow down drying and hardening of the coat.

During rain, fog, creation of condensation water, effect of aggressive gases and during wind with strong content of dust the coating work must be suspended and can be restart after absolute drying of surface-treated material.

Workflow

Properly mix before use, thin, if it is necessary.

The coating of a metal:

- 1 coat of S2003 FORMEX FOR GALVANIZED IRON. It dries at temperature of approximately 20°C. Drying can be accelerated by heating up to 80°C. The coat dried on air can be re-sprayed by synthetic or nitrocellulose enamel already after 1 hour, optimum thickness of one layer is 35 - 40 µm.
- 2 or 3 coats of synthetic enamel INDUSTROL UNIVERZAL S2013, INDUSTROL UNIMAT S2075 or INDUSTROL PROFI U2129.

Application

Brush, roller, spraying

Handling

Read the instructions in the Safety Data Sheet before use and follow all safety instructions and regulations. The product contains organic solvents. Follow basic hygiene rules. Do not eat, drink or smoke while using this product. Avoid contact with eyes, skin or clothing. Wear protective gloves, eye protection, protective clothing. Ensure effective ventilation of the workplace. People and animals should not remain in the treated area until the paint dries.

If on skin: take off contaminated clothing and wash skin with plenty of soap and water. If inhaled: remove person to fresh air. If in eyes: rinse thoroughly for 10-15 minutes with clean water. Remove immediately contact lenses if present. If swallowed: rinse your mouth with water. If you feel unwell or in case of health problems or if in doubt, and accidental ingestion and contact with eyes, always consult a doctor immediately.

Packing

0.6 l; 4 l; 9 l

Storability

The product keeps the product qualities 5 years from production date in original closed container. To store in dry storage at the temperature 5 to 25 °C. Flammable liquid II. hazard class.

Disposal of packing and waste

Hand over the used, properly empty packing at the collection point of the packing waste. Dispose the packing with the product rest at the place determined by the town for disposal of hazardous waste or hand over to the person authorized for hazardous waste disposal. Further see MSDS.

These data are only for information and their accuracy is influenced by the properties of individual materials and unpredictable factors during application. The user is responsible for correct use of the product according to the direction for use and for correct application of painting system, i.e. he must always evaluate all conditions of application, which could influence final quality of the top treatment. Therefore, we always recommend to the user to carry out the test for actual working conditions and type of surface applied. Above mentioned data are data, which influence individual working conditions and therefore they do not establish a legal claim. It is necessary to consult information outside the terms of this catalogue sheet with the producer.

The producer stipulates the right for the change in the catalogue sheets without previous notification.