

**BARVA LAKY****HOSTAGRUND® 2in1 NA ŽELEZO S 2160**

Thixotropic single coat for iron

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**Composition** Dispersion of pigments, fillers and anticorrosive pigments in a solution of modified resins in organic solvents with addition of driers and additives.

**Characteristics and use** The product is intended for anticorrosive single coats of steel structures, e.g. masts, bridges, undercarriages and fences. It is suitable for oxidized galvanized steel as well and also for absorbent substrates such as wood or masonry. The product is characteristic by an excellent adhesion to steel surfaces and by very quick drying even in thick layers. The thixotropic character allows to apply the paint in very thick layers; by airless spraying it is possible to dash up to 300 µm of a wet film in a single step. The coating film has a silk matt surface. It is produced in a wide range of shades (for wholesalers also in RAL shades).

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.

- ◆ direct to rust
- ◆ it stays on vertical surfaces
- ◆ paint 2 in 1 for cost-saving work

**Application area** Substrate: steel, cast iron, wood, mineral surfaces, galvanized steel (oxidized)  
 Environment: exterior, interior with a medium corrosive effort (laundries, cellars, industrial premises, workshops)  
 Examples: bogie wagons, transporting containers, metal constructions, bridges, towers, pipe systems, metal crash barriers, fences, sheet-metal garages, gates, concrete walls

**Shades** 0100 - white, 0101 – light grey, 0110 – medium grey, 0199 - black, 0243 - brown, 0280 - palisander, 0440 – light blue, 0455 – dark blue, 0514 – light green, 0530 – medium green, 0540 – dark green, 0620 – medium yellow, 0840 – russet, 0910 - aluminium, 6200 – gasworks yellow

<b>Physical properties</b>	Flow time	thixotropic
	Weight solids	> 62 %
	Volume solids	44 - 45 %
	Flash point	> 25 °C
	Density	1300 - 1370 kg/m <sup>3</sup>

<b>Emission limits</b>	VOC: 0.35 – 0.39 kg/kg	TOC: 0.30 – 0.34 kg/kg
	Product subcategory: A/i	Threshold value (2010): 500 g/l
	Max. VOC content in ready to use state: 499 g/l	

<b>Properties of dried coat</b>	Gloss	degree 4 - 5
	Pendulum hardness / Persoz	up 8 % in 5 days
	Hiding power	degree 1
	Liquid water permeability	w3 – low (≤ 0,1 kg/(m <sup>2</sup> .h <sup>0,5</sup> )) (EN 1062-3)
	Water-vapour transmission properties	V3 – low (≤ 15 g/(m <sup>2</sup> .d))
	Surface finish adhesion of building structures to the base	5 MPa (substrate concrete) (ČSN 73 2577)

<b>Drying time</b>	Surface temperature	23 °C
	Dust free	up to 2.5 hours
	Dry through	up to 24 hours
	Dry film thickness DFT	100 µm

<b>Spreading capacity</b>	Wet film thickness WFT	220 - 230 µm
	Dry film thickness DFT	100 µm
	Theoretical spreading capacity	ca 4.5 m <sup>2</sup> /l per one layer

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<b>Thinning</b>	S 6005 (for cleaning tools)
<b>Surface preparation</b>	<p>The surface must be clean, dry, degreased, free of rust and dust, mechanically cleaned. First of all, the surface must be degreased by means of suitable agent (e.g. technical benzine P 6402, acetone P 6401 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).</p> <p>Absorbent bases must be treated (penetrated) with suitable agent, providing even absorbency. 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 m<sup>2</sup>. It is recommended to follow the procedure system according to the technical data sheet.</p>
<b>Application conditions</b>	<p>Minimal air temperature for application is 5 °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. Optimal temperature for application is about 18 – 23 °C. Relative humidity must not be higher than 75 %. 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. Imperfectly dried surface can cause problems with adhesion of paint to surface or with adhesion between individual coats. In addition it can negatively affect overall appearance of the paint film.</p> <p>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.</p> <p>Do not apply the paint on a hot summer day. The high temperature in the atmosphere causes rapid drying of the surface layer film and the subsequent possible wrinkling of the film. It also reflected problems in connecting the individual strokes of paint coating.</p> <p>For larger compact areas always use the material from the same batch. Using the same batch can guarantee the same shade of the colour.</p>
<b>Workflow</b>	<p>Properly stir before use, thin, if it is necessary. Stirring disrupts the gel and the product becomes slightly liquid.</p> <p><b>Airless spraying:</b> Apply 1 x coat of HOSTAGRUND S 2160 in the way to get the final thickness of dry paint film at least 100 µm.</p> <p><b>Brush:</b> Apply 1 or 2 coats of HOSTAGRUND S 2160 in the way to get the final thickness of dry paint film at least 100 µm. If it is necessary, apply the next coats after 4 hours (soonest after 24 hours).</p>
<b>Application</b>	<p>Brush</p> <p>Airless spraying, e.g. VYZA VARIO 56-45 (EST): Nozzle 0.011 inch (0.28 mm) or 0.013 inch (0.33 mm); Pressure on nozzle 25 – 33Mpa (250 – 330 atm.; 3600 – 4800 psi); Nozzle 0.009 inch (0.23 mm); Pressure on nozzle 19 – 22 Mpa (190 – 220 atm.; 2800 – 3200 psi); Spraying angle 20 – 60°; Filter of spraying gun - yellow 100/149 (mesh/ µm)</p>
<b>Handling</b>	<p>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.</p> <p>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</p>

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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.