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**Composition** Dispersion of inorganic and organic pigments in alkyd-urethane resin solution in organic solvents.

**Characteristics and use** The product is characteristic with an excellent hiding power, high gloss and very good weathering resistance. It is manufactured in a wide range of both RAL and BAL shades and according to the individual customer demands. The product has a long-term storability, during which there are not occurring any changes in the painting matter properties.  
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.

- ◆ long-term weather resistance
- ◆ gloss stability
- ◆ alkyd-urethane binder

**Application area** Substrate: wood, chipboard, iron, cast iron, light metals, concrete, brickwork. The substrate should be treated with a suitable primary painting matter.  
Environments: interior, exterior  
Examples: doors paints, doorframes, wooden furniture and lining, wooden fences, eaves, window sills, constructions, garden furniture, carts, smaller industrial products, washable and abrasion resistant walls paints

**Shades** 1000 - white, 1010 – body-colour grey, 1100 – medium grey, 1110 – light grey, 1999 - black, 2320 – coffee brown, 2430 – chocolate brown, 2880 – chestnut brown, 4265 – body-colour blue, 4400 – light blue, 4550 – signal blue, 5014 – light body-colour green, 5080 – pea green, 5149 – light green, 5300 – medium green, 5400 – dark green, 5450 – khaki green, 5700 – green for wagons, 6003 - ivory, 6050 – cream light, 6201 – medium chromium yellow, 6400 – dark chromium yellow, 6600 – oak yellow, 6700 – light ochre, 7551 – signal yellow, 8140 – light cinnabar, 8191 – dark cinnabar, 8440 - russet, 9110 - aluminium. Another shades are available based on agreement between the customer and producer. The 9110 aluminium shade can only be applied with a brush and roller without aesthetic appeal.

<b>Physical properties</b>	Flow time	130 – 180 s (cup Ford Ø 4 mm)
	Weight solids	> 58 %
	Volume solids	50 - 55 %
	Flash point	36 °C
	Density	1000 - 1250 kg/m <sup>3</sup>

<b>Emission limits</b>	VOC: 0.24 – 0.29 kg/kg	TOC: 0.20 – 0.22 kg/kg
	Product subcategory: A/d	Threshold value (2010): 300 g/l
	Max. VOC content in ready to use state: 299 g/l	

<b>Properties of dried coat</b>	Gloss	degree 1 degree 3 (for shades 9109 and 9110)
	Pendulum hardness / Persoz	up 8 % in 5 days
	Hiding power	degree 1 – 2 shades brightly red and yellow - degree 3
	Liquid water permeability	w3 – low ( $\leq 0,1 \text{ kg}/(\text{m}^2 \cdot \text{h}^{0,5})$ ) (EN 1062-3)
	Surface finish adhesion of building structures to the base	5,1 MPa (substrate concrete) (ČSN 73 2577)

<b>Drying time</b>	Surface temperature	23 °C
	Dust free	up to 10 hours
	Dry through	up to 48 hours
	Dry film thickness DFT	30 - 40 µm

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**Spreading capacity**

Wet film thickness WFT	60 - 80 µm
Dry film thickness DFT	30 - 40 µm
Theoretical spreading capacity	14 - 16 m <sup>2</sup> /l per one layer

**Thinning**

S 6006 (brush, roller), S 6001 (spraying)

**Surface preparation**

The timber surface must be clean, dry, well worn, moisture max. 12%, without rest of any resins. Concrete or masonry substrate must be dry, compact, clean, well-matured (usually 4-6 months) and insulated against ground (bottom) moisture. The metal substrate must be clean, dry, degreased, free of rust and dust, mechanically cleaned. Absorbent substrates must also be treated with a suitable impregnant and provided with a suitable base coat. Metal substrates must be provided with appropriate anticorrosive primer.

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.

**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. 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.

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.

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.

For larger compact areas always use the material from the same batch. Using the same batch can guarantee the same shade of the colour.

Stackability must be tested for specific conditions (climatic conditions, thickness, number of coats, the shape of the substrate, substrate type, etc.).

**Workflow**

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

**The coating of a metal:**

- 1x PRAGOPRIMER STANDARD S 2000, FORMEX FOR GALVANIZED IRON S 2003, PRAGOPRIMER EXTRA S 2035 or PRAGOPRIMER PROFI S 2129;
2. local bonding i.e. BKP Rapid, regrind bonded area with a sandpaper;
3. 1x PRAGOPRIMER STANDARD S 2000, FORMEX FOR GALVANIZED IRON S 2003, PRAGOPRIMER EXTRA S 2035 or PRAGOPRIMER PROFI S 2129;
4. grinding with a sandpaper No. 280-320 while wet;
5. 2 – 3x INDUSTROL UNIVERZAL S 2013 enamel. Optimal thickness of a single layer is 30-35 µm.

**The coating of a wood:**

1. 1x impregnate with LAZUROL CLASSIC S 1023 or LAZUROL FUNGICIDAL IMPREGNATION S 1033, drying for 24 hours
2. 1 - 2x PRAGOPRIMER PLUS S 2070 or LAZUROL OKNOBAL PRIMER S 2060
3. 2 - 3x INDUSTROL UNIVERZAL S 2013 enamel. Time interval between particular layers is at least 24 hours (20 °C). Optimal thickness of a single layer is 30-35 µm.

**Application**

Brush, roller, spraying

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<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 health problems or if in doubt, and accidental ingestion and contact with eyes, always consult a doctor immediately.</p>
<b>Packing</b>	0.375 l; 0.6 l; 0.75 l; 4 l; 9 l
<b>Storability</b>	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.
<b>Disposal of packing and waste</b>	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.