

# INDUSTROL® UNIMAT U 2175 BASE

Universal enamel matt

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**Composition** Dispersion of organic and inorganic pigments in a solution of modified urethanized alkyd resins in organic solvents with addition of additives and driers.

**Characteristics and use** After adjusting the shade with a tinting machine, the enamel is intended for decorative matt top coats. Enamel has excellent hiding power and very good resistance to weathering. In combination with a suitable primer, it can be used on metal, wood and mineral substrates. 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
- ◆ good hiding power
- ◆ urethanized vehicle

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

**Shades** Transparent and white base with various degree of pigmentation. Colour shades are prepared by addition of colouring agents on tinting machine.  
 Transparent base (T) 0021  
 White base (P) 0025

<b>Physical properties</b>	Flow time	100 - 130 s (cup Ford Ø 4 mm)
	Weight solids	> 60 %
	Volume solids	43 - 46 % (according to shade)
	Flash point	> 25 °C
	Density	1240 - 1300 kg/m <sup>3</sup>

<b>Emission limits</b>	VOC: 0.38 – 0.40 kg/kg	TOC: 0.34 – 0.36 kg/kg
	Product subcategory: A/i	Threshold value: 500 g/l
	Max. VOC content in ready to use state: 499 g/l	

<b>Properties of dried coat</b>	Gloss / 60°	20 - 40
	Pendulum hardness / Persoz	up 10 % in 24 hours
	Hiding power	degree 1 – 2 shades – brightly red and yellow, degree 3

<b>Drying time</b>	Surface temperature	23 °C
	Dust free	up to 2 hours
	Dry through	up to 24 hours
	Dry film thickness DFT	30 - 40 µm

<b>Spreading capacity</b>	Wet film thickness WFT	70 µm
	Dry film thickness DFT	30 µm
	Theoretical spreading capacity	11 - 13 m <sup>2</sup> /l per one layer

**Thinning** S 6006

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- 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 to 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:**
1. 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 UNIMAT U 2175 enamel. Optimal thickness of a single layer is 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 UNIMAT U 2175 enamel. Time interval between particular layers is at least 24 hours (20 °C). Optimal thickness of a single layer is 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>	0.75 l; 4.5 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.