



# TECHNICAL SHEET



Product name:

**DENATOP R**

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13.4.2016

<b>Characteristics:</b>	Disperse acrylic enamel for metals
<b>Description:</b>	Single-pack water-thinnable enamel formulated on the basis of acrylic dispersion.
<b>Composition (general):</b>	Mixture on the basis of acrylic dispersion containing color pigments, fine extenders, coalescent agents, rheology modifiers and other ingredients enhancing paint properties. As a thinner, it contains water and a small amount of glycol-ether-based solvents; it does not contain any aromatic solvents or white spirit.
<b>Application:</b>	Coatings for steel, galvanized and aluminum structures treated with a primer of the DENAKOR, DENAPOX Z and EPOXIDEN Z series. The possibility of using other types of primers must be tested in advance or discussed with the manufacturer. The enamel is fit for coating metal roofs, plumber structures, steel bridges, columns, railings, industrial buildings and technological facilities and other structures in civil construction and reconditioning. The enamel can be used for coatings on exteriors as well as in interiors.
<b>Colors:</b>	It is made according to RAL, EUROTREND, NCS, ČSN color charts or in the agreed color shades.
<b>Properties:</b>	<b>Paint:</b>
Density (g/cm <sup>3</sup> ):	1.03 – 1.25
Volume solids ONL (%):	35 - 45
Weight solids (%):	30 - 55
KU viscosity:	70 - 90
Flow time by use of flow cups F6 (s):	16 - 50
pH (at 20 °C):	8 - 10
VOC (volatile organic compounds) (kg/kg):	0.004 – 0.06
0.006 TOC (total organic carbon content) (kg/kg):	0.002 – 0.04
Maximum permissible value of VOC content (g/l):	130
Max. VOC content in the product in the ready-to-use condition (g/l):	75
Water-thinnable paint category:	A/d interior/exterior coating materials for wood, metal or plastics for furnishings and linings of buildings.
Appearance/color:	Liquid
Gloss value (at 60°):	70 - 80
Pendulum hardness (2H/80 °C):	min. 30%
Miscibility:	Miscible with water.
Adhesion by the grid-cutting method:	Degree 0 (cut edges are completely smooth and free of any defects)
Drying, degree 1 (surface dry):	30min
Drying time, degree 2 (dry to touch):	1hr 15min
Drying time, degree 4 (dry-through):	10hrs
<b>Substrate preparation:</b>	The substrate must be treated with an anticorrosion primer.
<b>Application conditions:</b>	It is recommended that the application method and the application conditions always be discussed with the manufacturer, who will adapt the composition of the paint to the specific conditions. The paint can be prepared for direct application and it shall not be thinned before the application. The air and substrate temperatures during the application and drying of the paint shall not fall below +5 °C. If multiple coatings are required, the time lag between individual coatings should be at least 12 hrs, depending on the drying conditions.
<b>Thinning:</b>	Water
<b>Recommended method of application:</b>	With a paint brush, a paint roller or by soaking or spray painting - air, pneumatic, high-pressure - Airless, Airmix. The paint can be additionally dried at a max. of 80 °C.



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<b>Recommended coating system:</b>	<p>1 - 2 layers of DENAKOR HG 56, optimum paint thickness of 80 -120 <math>\mu\text{m}</math> DFT, the re-spray interval with two layers is 24 hrs at 20 °C; if additional drying is employed at temperatures to 80 °C, the interval can be reduced up to 2 hrs.</p> <p>1 - 2 layers of DENATOP R, dispersion acrylic enamel, optimum layer thickness of 80 <math>\mu\text{m}</math> DFT, the re-spray interval between the primer and the enamel must be at least 6 hrs; the same applies to 2-layer enamel at 20 °C; if additional drying is employed to 80 °C, the interval can be reduced.</p> <p>Other anticorrosion primers of the DENAKOR series or the epoxy primer EPOXIDEN Z can also be used as primers.</p>												
<b>Spreading capacity and recommended thickness:</b>	<p>The recommended coat thickness ranges from 80 to 120 <math>\mu\text{m}</math> DFT</p> <table border="1"><tr><td>Wet-film thickness WFT (<math>\mu\text{m}</math>)</td><td>200</td><td>300</td></tr><tr><td>Dry-film thickness DFT (<math>\mu\text{m}</math>)</td><td>80</td><td>120</td></tr><tr><td>Theoretical spreading rate (<math>\text{m}^2/\text{kg}</math>)</td><td>4.20</td><td>2.80</td></tr><tr><td>Theoretical spreading rate (<math>\text{kg}/\text{m}^2</math>)</td><td>0.25</td><td>0.35</td></tr></table>	Wet-film thickness WFT ( $\mu\text{m}$ )	200	300	Dry-film thickness DFT ( $\mu\text{m}$ )	80	120	Theoretical spreading rate ( $\text{m}^2/\text{kg}$ )	4.20	2.80	Theoretical spreading rate ( $\text{kg}/\text{m}^2$ )	0.25	0.35
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<b>Packaging:</b>	Plastic or metal containers weighing 0,8 - 200 kg.												
<b>Storage:</b>	<p>Store in original, well-closed containers in cool, dry and well-ventilated areas at temperature from +5 to +25 °C. Protect from freezing. Keep the mixture separated from drinks, foodstuff, feedstuff and medicine. Store away from the reach of children.</p> <p>The shelf life is a minimum of 12 months from the date of manufacture. The product must not freeze.</p>												
<b>Disposal of packaging and waste:</b>	Product residues and contaminated packaging shall be disposed of as hazardous waste in accordance with the applicable regulations.												
<b>Safety and hygiene:</b>	When handling the product, observe the instructions provided in the safety data sheet. Observe the principles of personal hygiene. If on the skin, wash the affected areas with soap and water. In case of contact with eyes, rinse immediately with plenty of water, seek medical advice. If swallowed, rinse mouth with water, do not induce vomiting and get medical attention.												
<b>Legislation, certificates, attestations, other tested parameters:</b>	See the Declaration of Conformity												