



# TECHNICAL SHEET



Product name:

**DENATOP PZ/HR**

Page: 1/2

Date: 13.4.2016

<b>Characteristics:</b>	Heat-resistant single-pack single-layer anticorrosion paint	
<b>Description:</b>	Single-pack, water-thinnable, half-matte, single-layer paint, heat-resistant.	
<b>Composition (general):</b>	Mixture based on silicone and acrylic binders containing the combination of anticorrosion pigments with zinc-phosphate, color pigment, extenders, glycols and additives.	
<b>Application:</b>	Surface treatments in the metal industry, mechanical engineering, in foundries, forging shops, in repair shops and other branches of industry. Continuous temperature resistance: black to 400 °C aluminum to 500 °C	
<b>Colors:</b>	Black, aluminum	
<b>Properties:</b>	<b>Paint:</b>	
<b>Density (g/cm<sup>3</sup>):</b>	1.1 - 1.3	
<b>Volume solids ONL (%):</b>	20 - 35	
<b>Weight solids (%):</b>	40 - 50	
<b>KU viscosity:</b>	60 - 85	
<b>Flow time by use of flow cups F6 (s):</b>	10 - 50	
<b>pH (at 20 °C):</b>	7 - 9	
<b>VOC (volatile organic compounds) (kg/kg):</b>	0.02 – 0.04	
<b>0.006 TOC (total organic carbon content) (kg/kg):</b>	0.01 – 0.03	
<b>Maximum permissible value of VOC content (g/l):</b>	140	
<b>Max. VOC content in the product in the ready-to-use condition (g/l):</b>	52	
<b>Water-thinnable paint category:</b>	A/i single-pack paints with a special function.	
<b>Appearance/color:</b>	Liquid	
<b>Gloss value (at 60°):</b>	8 - 15	
<b>Pendulum hardness (2H/80 °C):</b>	min. 33%	
<b>Miscibility:</b>	Miscible with water.	
<b>Adhesion by the grid-cutting method:</b>	Degree 0 (cut edges are completely smooth and free of any defects)	
<b>Drying, degree 1 (surface dry):</b>	55min	
<b>Drying time, degree 2 (dry to touch):</b>	2 hr 15min	
<b>Drying time, degree 4 (dry-through):</b>	12hrs	
<b>Substrate preparation:</b>	The substrate must be dry, free from any mechanical and greasy impurities and residues of old paint incoherent with the substrate. Recommended substrate treatments include blasting or degreasing.	
<b>Application conditions:</b>	recommended wet-film thickness	max. 150 µm in one layer
	flow time	20-30 minutes
	firing time )*	200°C / 60 minutes or 250°C / 30 minutes
	max. system thickness for firing	60 µm for dry film (two layers)
	Full mechanical and anticorrosion properties are reached after the firing. Two-layer application is recommended for exteriors. The air and substrate temperatures during the application and drying of the paint shall not fall below +15 °C. The paint is not fit for coatings in the field under unstable weather and temperature conditions.	
	)* firing is possible only through the operation of the device; the properly dried paint is mechanically resistant for handling	
<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 application method, application tool type and application conditions must always be discussed with the manufacturer or supplier.	



# TECHNICAL SHEET



Product name:

**DENATOP PZ/HR**

Page: 2/2

Date: 13.4.2016

<b>Recommended coating system:</b>	1 - 2 layers of DENATOP PZ/HR, optimum film layer is 50 µm DFT; if two layers are required, each layer must be fired separately
<b>Application data:</b>	The paint shall be applied with a paint brush, a paint roller or by soaking or spray painting - air, pneumatic, high-pressure - Airless, Airmix Full mechanical and anticorrosion properties are reached after firing.
<b>Spreading capacity and recommended thickness:</b>	Theoretical consumption is 5.20 m <sup>2</sup> /kg (0.20 kg/m <sup>2</sup> ) for dry layer of 50 µm.
<b>Packaging:</b>	Plastic or metal containers weighing 0,8 - 200 kg.
<b>Storage:</b>	Store in original and 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. The shelf life is a minimum of 12 months from the date of manufacture. The product must not freeze.
<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 water and soap. If in the eyes: rinse with water. If swallowed, rinse mouth with water, do not induce vomiting. In case of health difficulties, seek medical attention.
<b>Legislation, certificates, attestations, other tested parameters:</b>	See the Declaration of Conformity