



TECHNICAL SHEET



Product name:

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Characteristics:	Two-pack anticorrosion polyurethane paint.		
Description:	Two-pack, water-thinnable polyurethane anticorrosion single-layer paint intended for matte to glossy topcoats featuring chemical resistance, intended for the coating of metal components and structures.		
Composition (general):	The paint contains an acrylic component containing functional hydroxyl-groups as a binder, inorganic and organic pigments, extenders, coalescent agents, solvents and special additives, wetting and dispergation agents, anti-foaming agents, rheological modifiers and other ingredients. DENAPUR TUŽIDLO (hardening agent) contains a solution of aliphatic polyisocyanate in an environmentally-friendly solvent.		
Application:	The matte to glossy top anticorrosion coatings of steel, galvanized and aluminum structures for demanding applications requiring long durability at a high degree of corrosion and chemical stress in the interior as well as exterior. The paint features fast drying, an increase in hardness and non-stickiness, mechanical, chemical and weather resistance and good corrosion resistance. The product is used mainly for industrial applications in the metal industry and mechanical engineering and for coating of technological units in the chemical and food industry as well as in agriculture. Furthermore, the product can also be used for the coating of means of transport, industrial washing machines, engines, gearboxes, machine tools, machinery and it is also fit for surface treatment in civil engineering and refurbishment.		
Colors:	It is made in the color shades according to the RAL color chart or as agreed with the manufacturer.		
Properties:	Paint:	Hardenin g agent:	Hardened mixture:
Density (g/cm³):	1.2 - 1.5	1.05 - 1.15	1.2 - 1.5
Volume solids ONL (%):	42 - 52	70 - 75	55 - 60
Weight solids (%):	55 - 65	80 - 85	65 - 70
KU viscosity:	60 - 100		
Flow time by use of flow cups F6 (s):	10 - 50		
Flow time by use of flow cups F4 (s):	> 60		25 - 60
pH (at 20 °C):	7 - 8		7 - 8
VOC (volatile organic compounds) (kg/kg):	0.05	0.19	0.09
0.006 TOC (total organic carbon content) (kg/kg):	0.03	0.10	0.08
Maximum permissible value of VOC content (g/l):	140		
Max. VOC content in the product in the ready-to-use condition (g/l):	90		
Water-thinnable paint category:	A/j multiple-pack reactive coatings with a special function for specific purposes.		
Appearance/color:	Liquid		
Gloss value (at 60°):	max. 20		
Pendulum hardness (2H/80 °C):	min. 25		
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):	30 min		
Drying time, degree 2 (dry to touch):	40 min		
Drying time, degree 4 (dry-through):	1 hr		
Chemical resistance:	resistant to - weak acids and bases, diesel, Savo, motor oil, hydrogen peroxide, xylene, butyl glycol		
Substrate preparation:	The substrate must be clean, free from mechanical and greasy impurities. Old and incoherent coatings must be removed for the purpose of refurbishment. Degreasing, phosphate degreasing or substrate blasting are recommended. The DENAPUR EZ coating can be applied to galvanized and aluminum structures only after the thorough cleaning and degreasing of the substrate.		



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Application conditions:	The air and substrate temperatures during the application and drying of the paint shall not fall below +15 °C. The open time of the hardened mixture is a max. of 1-2 hrs at 20 °C. If multiple coatings are required, the time lag between individual coatings should be at least 12 hrs, depending on the drying conditions.												
Thinning:	Water												
Hardening:	Prior to the application, DENAPUR EZ should be mixed with a hardener in the specific mass ratio (100:20). The mixing ratios of both the components are specified by the manufacturer depending on the type, application and customer's requirements for final properties and paint resistance. The hardening agent should always be added to the paint during continuous stirring. Use a suitable stirring device for mixing (e.g. a drill with a stirrer); it must be thoroughly mixed. After the thorough mixing of both components, the mixture shall be put aside for min. 5 minutes and the consistency shall be adjusted by the adding of 5 to 15 parts of water, depending on the required viscosity. The manufacturer supplies the paint adapted to the application conditions and application technology.												
Recommended method of application:	With a brush, a roller or by spray painting - air, pneumatic, high-pressure - Airless, Airmix												
Recommended coating system:	1 - 2 layers of DENAPUR EZ, optimum paint thickness of 120 - 160 µm DFT, the re-spray interval with two layers is 8 hrs at 20 °C; if additional drying is employed at temperatures up to 80 °C, the interval can be reduced by up to 2 hrs.												
Application data:	The paint can be additionally dried at 50 - 80 °C. The open time of the hardened mixture is a max. of 2 hrs.												
Spreading capacity and recommended thickness:	The recommended coat thickness ranges from 120 to 160 µm DFT <table border="1"><tr><td>Wet-film thickness WFT (µm)</td><td>200</td><td>270</td></tr><tr><td>Dry-film thickness DFT (µm)</td><td>120</td><td>160</td></tr><tr><td>Theoretical spreading capacity (m²/kg)</td><td>3.30</td><td>2.45</td></tr><tr><td>Theoretical spreading rate (kg/m²)</td><td>0.30</td><td>0.40</td></tr></table>	Wet-film thickness WFT (µm)	200	270	Dry-film thickness DFT (µm)	120	160	Theoretical spreading capacity (m ² /kg)	3.30	2.45	Theoretical spreading rate (kg/m ²)	0.30	0.40
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Packaging:	Plastic or metal containers weighing 0.8 - 200 kg.												
Storage:	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. The shelf life is a minimum of 12 months from the date of manufacture. The product must not freeze.												
Disposal of packaging and waste:	Product residues and contaminated packaging shall be disposed of as hazardous waste in accordance with the applicable regulations.												
Safety and hygiene:	Observe the principles of personal hygiene. Ensure good ventilation of the workplace. During application, wear respiratory protection. If on the skin, wash the affected areas with soap and water. 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.												