

TECHNICAL SHEET





Product name:

DENAPUR Z

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Characteristics:	Two-pack anticorrosion polyurethane paint.		
Description:	Two-pack water-thinnable paint intended for anticorrosion priming of substrates in the metal industry. The paint contains an acrylic component containing functional hydroxyl groups as a binder, color anticorrosion pigments, extenders, coalescent agents, wetting and dispergation agents, anti-foaming agents, rheological modifiers and other ingredients. DENAPUR TUŽIDLO (hardening agent) contains a solution of aliphatic polyisocyanate in the glycol-ether-based solvent.		
Composition	Mixture on the basis of polyurethane dispersion		
(general):			
Application:	The priming anticorrosion coatings of steel, galvanized and aluminum structures for heavy-duty applications in the metal industry and mechanical engineering and for the coating of technological units in the chemical and food industries as well as in agriculture. The paint features a fast drying capacity, an increase in hardness and non-stickiness, as well as good mechanical, chemical and corrosion resistance.		
Shades:	It is made in the color shades according to the RAL color chart or as agreed with the manufacturer.		
	Hardening Hardened		

Properties		Paint:	Hardening agent:	Hardened mixture:
Troperties	Density (g/cm ³):	1.4 – 1.7	1.12	1.4 – 1.5
	Volume solids ONL (%):	48 - 58	77	55 - 60
	Weight solids (%):	60-70	80	65 - 70
	VOC (volatile organic compounds) (kg/kg):	0.02 - 0.05	0.3	0.05 - 0.09
0.006 TOC (total organic carbon content) (kg/kg):		0.01 - 0.04	0.16	0.03 - 0.08
Maximum permissible value of VOC content (g/l):		140		
Max. VOC	content in the product in the ready-to-use (g/l):	135		
03-14-00-0-1	Water-thinnable paint category:	A/j multiple-pack rea function for specific		with a special
	pH (at 20 °C)	7 - 9		
	Appearance:	Liquid		
	Gloss:	L60: 85-95		
	Hardness:	5D min 35		
	Adhesiveness:	degree 0 (cut edges	are completel	y smooth and free
		of any defects)		
	Viscosity:	KU=60-100		F4=60-25
	N#: a : 1.2124	(sec) Miscible with water.		
	Miscibility:	1 hr		
Drying time, degree 1 (dust-free):		1 hr 10 min		
Drying time, degree 2 (dry to touch): Drying time, degree 4 (dry-through)		2 hr 50 min		
	Chemical resistance:	resistant to - weak ac	ids and hassa	diasal matarail
		hydrogen peroxide, x	kylene, butyl g	lycol, Savo
ibstrate reparation:	The substrate must be clean, free from any mechan incoherent with the substrate. Phosphate degreasing of			
pplication nditions:	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.			
ninning:	Water		, ,	
ardening:	Prior to the application, DENAPUR Z should be mixed with the hardening agent in the specific mass ratio			

^{*) -} tested as a part of coating systems

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(100:20). The mixing ratios of both the components are specified by the manufacturer, depending on the type, application and customer requirements for final properties and paint resistance. The hardening ratio must always be discussed with the manufacturer. 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); must be thoroughly mixed. After through mixing of both the 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

	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	with a brush, a roller or by spray painting - air, pneumatic, high-pressure - Airless, Airmix			
method of				
application:				
Recommended	Two-pack enamels DENAPOX E, EPOXIDEN E, DENAPUR or single-pack enamels DENATOP P,			
coating system:	DENATOP S are recommended as topcoats.			
Application data				
	The open time of the hardened mixture is a max. of 2 hrs.			
Spreading	The theoretical spreading capacity is $8 - 9 \text{ kg/m}^2$ at the optimum thickness of $30 \mu\text{m} - 60 \mu\text{m}$ MF for two			
capacity and	coatings.			
recommended	Wet layer thickness: 30 - 60 μm MF			
thickness:	Dry layer thickness: 10 - 20 μm SF, for non-thinned varnish 15 μm SF, after thinning with 20 parts of water			
	10 μm SF			
Packaging:	Plastic or metal containers weighing 0.8 - 200 kg.			
Storage:	Store in original and well-closed containers in cool, dry and well-ventilated areas at a 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 36 months from the date of manufacture. The product must not freeze.			
Disposal of	Product residues and contaminated packaging shall be disposed of as hazardous waste in accordance with			
packaging and	the applicable regulations.			
waste:				
Safety and	Observe the principles of personal hygiene. Ensure good ventilation of the workplace. During application,			
hygiene:	wear respiratory protection. If on the skin, wash the affected areas with soap and water. If in the eyes: rinse			
•0	with water. If swallowed, rinse mouth with water, do not induce vomiting. In case of health difficulties, seek			
	medical attention.			
Legislation,	See the Declaration of Conformity			
certificates,				
attestations, other				
tested parameters:				

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