



TECHNICAL SHEET



Product name:

DENAPOX B

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Characteristics:	Two-pack dispersion epoxy-acrylic paint		
Description:	Two-pack water-thinnable paint intended for coatings of silicate substrates with high requirements for chemical resistance and durability in the interior and exterior		
Composition (general):	Mixture based on epoxy-acrylic dispersion - the pigment component DENAPOX B contains special acrylic dispersion, organic and inorganic pigments, coalescent agents, biocide, soaking and dispergation agents, antifoaming agent, rheology modifiers and other ingredients enhancing the properties of the substance. The netting agent DENAPOX TUŽIDLO contains epoxy-resin emulsion		
Application:	Coatings of concrete floors, walls and concrete as well as other silicate substrates and structures in heavy-duty environments - food and chemical premises, facilities containing ionizing radiation sources, health facilities, spa facilities and swimming pools, catering facilities and others.		
Colors:	It is produced according to RAL, EUROTREND, NCS, ČSN color charts or in the agreed shades, matte.		
Properties:	Paint:	Hardenin g agent:	Hardened mixture:
Density (g/cm³):	1.1 - 1.3	1.1	1.15 - 1.3
Volume solids ONL (%):	30 - 40	63.5	35 - 45
Weight solids (%):	45 - 55	67	48 - 55
KU viscosity:	65 - 80		
Flow time by use of flow cups F6 (s):	10 - 50		8 - 50
Flow time by use of flow cups F4 (s):			22 - 60
pH (at 20 °C):	8 - 10		8 - 10
VOC (volatile organic compounds) (kg/kg):	0.05 - 0.07	-	0.03 - 0.04
0.006 TOC (total organic carbon content) (kg/kg):	0.03 - 0.05	-	0.015 - 0.025
Maximum permissible value of VOC content (g/l):	140		
Max. VOC content in the product in the ready-to-use condition (g/l):	52		
Water-thinnable paint category:	A/j multiple-pack reactive paints with a special function for specific purposes.		
Appearance/color:	liquid		
Gloss value (at 60°):	5 - 10		
Pendulum hardness (2H/80 °C):	min 20%		
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):	35 min		
Drying time, degree 4 (dry-through):	60 min		
Water vapor permeability - class I. (m):	Sd < 5 *)		
Carbon dioxide permeability (m):	> 50		
Liquid water permeability (kg/m² · h^{0.5}):	w < 0,1 *)		
Adhesion - Freeze-thaw cycling with de-icing salt immersion (N/mm²):	> 0.8		
Impact resistance - class III. (Nm):	> 20 *)		
Abrasion resistance - weight loss (mg):	< 3000		
Consistency by tearing test without movement (N/mm²):	> 0.8 *)		
Slip resistance for dry and wet (friction coefficient):	> 0.3: (rubber - 0.65; plastic - 0.52)		
Reaction to fire:	Class F		
Release of dangerous substances:	refer to the safety data sheet of the product		
Chemical resistance:	weak acids and bases, Savo, motor oil, cleaning and disinfecting products		
*) - tested as a part of coating systems			



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Substrate preparation:	The substrate must be dry, free from any mechanical and greasy impurities and residues of old paint incoherent with the substrate. Absorbent substrates should be soaked with an impregnating primer PRIMER B.		
Application conditions:	The air and substrate temperatures during the application and drying of the paint shall not fall below +10 °C. At lower temperatures, the enamel does not create a perfect film and the quality and durability of coatings are reduced. The open time of the hardened paint is at least 12 hrs at 20 °C.		
Thinning:	Water		
Hardening:	Prior to application, DENAPOX B paint and DENAPOX TUŽIDLO shall be mixed at the ratio of 100:7, while the hardening agent should be added to the paint during continuous stirring. Stirring should be performed with an appropriate stirrer (e.g. a drill with a stirrer). The mixing ratios of both the components can be changed upon agreement with the manufacturer on the requirements for the final properties of the coating.		
Recommended method of application:	The paint shall be applied to the surface with a brush, a roller, by spray painting - air, pneumatic, high-pressure - Airless, Airmix, in one or more layers, with a time lag of at least 4 hrs. It is recommended that the method of application, the number and the thickness of layers are always discussed with the manufacturer.		
Recommended coating system:	1 layer PRIMER B, surface soaking with the preparation PRIMER B thinned with water at the ratio of 1:4. Strongly absorbent substrates can be soaked with double coating. The application of additional layers shall be done after the impregnant has dried, but no sooner than after 4 hrs. 1 - 3 layers of DENAPOX B, two-pack epoxy-acrylic coating for a concrete, hardened or also thinned mixture, the optimum layer thickness 80 - 160 µm DFT (depending on the requirement for final properties of the coating), the interval between coatings is at least 12 hrs. The open time of the hardened mixture is a max. of 12 hrs.		
Application data:	The paint should be applied with a paint roller, a paint brush or by spray painting in one, two or more layers, with a time lag between coatings of at least 4 hrs. The mixture open time after mixing is a max. of 12 hrs. The application method, number and thickness of layers should always be discussed with the manufacturer.		
Spreading capacity and recommended thickness:	Theoretical consumption of EPOXIDEN B - see the chart,		
	Wet-film thickness WFT (µm)	220	380
	Dry-film thickness DFT (µm)	80	140
	Theoretical spreading capacity (m ² /kg)	3.50	2.0
	Theoretical spreading rate (kg/m ²)	0.30	0.50
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. In case of contact with the eyes, rinse immediately with plenty of water, seek medical advice. If swallowed, rinse mouth with water, do not induce vomiting and get medical attention.		
Legislation, certificates,	Conforms to the requirements of the ČSN EN ISO 1504-2 standard: Surface protection systems - coatings Declaration of Properties No. 001 Label:		



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attestations, other
tested parameters:



1020

**DENAS COLOR a.s., Sokolovská 1174/17, Bílovec
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1020-CPR-010-025990

EN 1504-2:2004

Surface protection systems - coatings

DENAPOX B

Abrasion resistance - weight loss: < 3000 mg

Carbon dioxide permeability: > 50 m

Water vapor permeability - class I: Sd < 5 m

Liquid water permeability: $w < 0.1 \text{ kg/m}^2 \cdot \text{h}^{0.5}$

Adhesion-thermal cycling (saline
solution): > 0.8 N/mm²

Consistency by tearing test, without
movement: > 0.8 N/mm²

Impact resistance - class III: > 20 Nm

Reaction to fire: class F

Release of dangerous substances: see the Safety data
sheet

Declaration of Properties No. 001 **001**