



TECHNICAL SHEET



Product name:

EPOXIDEN PENETRACE

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Characteristics:	Two-pack epoxy penetration coating		
Description:	Water-thinnable two-pack epoxy transparent penetration coating intended for the penetration of silicate substrates.		
Composition (general):	Mixture based on epoxy-acrylic dispersion.		
Application:	It is used for the penetration coating of concrete floors, walls, pits (tanks) and other silicate substrates and structures in the heavy-duty environment of the food and chemical plants and wherever high mechanical and chemical resistance is required.		
Colors:	Colorless (transparent) variant or in the agreed colors.		
Properties:	Paint:	EPOXIDEN TUŽIDLO	Hardened mixture without thinning / after thinning with water
Density (g/cm³):	1.0 – 1.1	1.14	1.1-1.14 / 1.0- 1.1
Volume solids ONL (%):	48 - 53	100	65-70 / 20-35
Weight solids (%):	45 - 55	100	65- 75 / 20-40
KU viscosity:	120 - 140		120-140 / < 65
Flow time by use of flow cups F6 (s):	> 200		> 200 / < 15
pH (at 20 °C):	8 - 10		8 - 10
VOC (volatile organic compounds) (kg/kg):	does not contain	-	does not contain
0.006 TOC (total organic carbon content) (kg/kg):	does not contain	-	does not contain
Maximum permissible value of VOC content (g/l):	30		
Max. VOC content in the product in the ready-to-use condition (g/l):	does not contain		
Water-thinnable paint category:	A/h - penetration coatings		
Appearance/color:	Yellow thick liquid		
Gloss value (at 60°):	150 - 170		
Miscibility:	miscible with water		
Drying, degree 1 (surface dry):	5 hrs		
Drying time, degree 2 (dry to the touch):	6 hrs		
Drying time, degree 4 (dry-through):	> 6 hrs		
Release of dangerous substances:	refer to the safety data sheet of the product		
Liquid water permeability (kg/m^{0,5} . h^{0,5}):	w < 0.1 *)		
Depth penetration class I. (mm):	< 10		
Substrate preparation:	The substrate must be solid, dry, free from any mechanical and greasy impurities. Incoherent concrete surface layers must be re-ground or removed mechanically.		
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 2 hrs.		
Thinning:	Water		
Hardening:	The penetration coat should be prepared by mixing the components EPOXIDEN PENETRACE and EPOXIDEN TUŽIDLO in the ratio 10:6. The hardening agent should always be added to the penetration during continuous stirring. Both the components should be mixed using an appropriate stirrer (e.g. a drill with stirring accessories). After thorough mixing, the consistency of the mixture shall be adjusted by adding 15 - 30 parts of water.		
Recommended method of application:	With a paint brush, a paint roller		
Recommended coating system:	EPOXIDEN PENETRACE + EPOXIDEN B or DENAPUR B		



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Application data	The mixture should be applied to the substrate using a paint brush or a paint roller. The time lag between the application of the top coat is 12-24 hrs, depending on the drying conditions.
Spreading capacity and recommended thickness:	The indicative consumption for the penetration is 0.1 to 0.15kg/m ² of the hardened mixture per one coating.
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 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 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:	While working and handling the product, observe the instructions given in the appropriate safety data sheets. Observe the principles of personal hygiene. 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, attestations, other tested parameters:	Conforms to the requirements of the ČSN EN ISO 1504-2 standard: Surface protection systems - impregnation Declaration of Properties No. 014 Label: <div data-bbox="612 1001 1201 1480" style="border: 1px solid black; padding: 10px; text-align: center;"> 1020 DENAS COLOR a.s., Sokolovská 1174/17, Bílovec 14 1020-CPR-010-025990 EN 1504-2:2004 Surface protection systems – impregnating agents EPOXIDEN PENETRACE Liquid water permeability: $w < 0.1 \text{ kg/m}^2 \cdot \text{h}^{0.5}$ Depth penetration class L: < 10 mm Reaction to fire: class F Release of dangerous substances: see the Safety data sheet Declaration of Properties No. 001 014</div>