



TECHNICAL SHEET



Product name:

DENATOP PZ

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| Characteristics: | Dispersion acrylic single-layer paint for industrial applications |
| Description: | Single-pack, water-thinnable, half-matte, single-layer paint |
| Composition (general): | Mixture based on acrylic dispersion containing a combination of anti-corrosion pigments with zinc-phosphate, color pigments, fine extenders, coalescence agents and other ingredients enhancing its properties. As a thinner, it contains water and a small amount of glycol-ether-based solvents; it does not contain any aromatic solvents or white spirit. |
| Application: | For surface treatments in the metal industry, mechanical engineering, in foundries, forging shops, in repair shops, in civil engineering and other branches of industry. |
| Colors: | It is made according to RAL, EUROTREND, NCS, ČSN color charts or in the agreed color shades. |
| Properties: | Paint: |
| Density (g/cm³): | 1.05 – 1.3 |
| Volume solids ONL (%): | 30 - 45 |
| Weight solids (%): | 40 - 55 |
| KU viscosity: | 70 - 100 |
| Flow time by use of flow cups F6 (s): | 16 - 120 |
| pH (at 20 °C): | 8 - 10 |
| VOC (volatile organic compounds) (kg/kg): | 0.03 – 0.06 |
| 0.006 TOC (total organic carbon content) (kg/kg): | 0.02 – 0.04 |
| Maximum permissible value of VOC content (g/l): | 140 |
| Max. VOC content in the product in the ready-to-use condition (g/l): | 80 |
| Water-thinnable paint category: | A/i - single-pack paints with a special function. |
| Appearance/color: | Liquid |
| Gloss value (at 60°): | 15 - 30 |
| 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): | 30min |
| Drying time, degree 2 (dry to the touch): | 40 min. |
| Drying time, degree 4 (dry-through): | 1hr 20min |
| Substrate preparation: | 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, degreasing or phosphatizing. |
| Application conditions: | It is recommended that the application method and the application conditions are always discussed with the manufacturer, who will adapt the composition of the paint to the specific conditions. The paint can be prepared for direct application and it shall not be thinned before the application. The air and substrate temperatures during the application and drying of the paint shall not fall below +15 °C. If multiple coatings are required, the time lag between individual coatings should be at least 12 hrs, depending on the drying conditions. |
| Thinning: | The paint can be thinned with water as required to the resulting thickness and application method, but not more than 20 %. |
| Recommended method of application: | With a paint brush, a paint roller or by soaking or spray painting - air, pneumatic, high-pressure - Airless, Airmix |
| Recommended coating system: | 1 layer of DENAPUR PZ, optimum paint thickness of 60 - 120 µm DFT, the re-spray interval with two layers is 12 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. |



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ISO 9001
REGISTERED QUALITY SYSTEM

ISO 14001
REGISTERED EMS

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| Application data: | <p>The paint shall be applied with a paint brush, a paint roller or by soaking or spray painting - air, pneumatic, high-pressure - Airless, Airmix The paint can be additionally dried.</p> <p>Data concerning conventional pneumatic spray painting</p> <p>Spray gun, for example EST 311, EST 314 or EST 115</p> <p>Nozzle according to the required performance 14-20</p> <p>Air pressure 2.5 - 3 atm.</p> <p>Data concerning the high-pressure spray painting Airless, e.g. VYZA VARIO 56-45 (EST)</p> <p>Nozzle 0.011 inch (0.28 mm) or 0.013 inch (0.33 mm)</p> <p>Nozzle pressure 22 - 28 MPa (220 - 280 atm; 3200 - 4100 psi)</p> <p>Spray angle 20 - 60°</p> <p>Yellow gun filter 100/149 (mesh/µm), for the spray angle 60 °C red gun filter 200/74 (mesh/µm)</p> | | | | | | | | | | | | |
| Spreading capacity and recommended thickness: | <p>The theoretical spreading rate is 5 - 7 m²/kg at the optimum dry layer thickness of 50 µm per one layer.</p> <p>The recommended coat thickness ranges from 60 to 120 µm, which depends mainly on the substrate roughness</p> <table border="1"><tr><td>Wet-film thickness WFT (µm)</td><td>150</td><td>300</td></tr><tr><td>Dry-film thickness DFT (µm)</td><td>60</td><td>120</td></tr><tr><td>Theoretical spreading rate (m²/kg)</td><td>5.60</td><td>2.80</td></tr><tr><td>Theoretical spreading rate (kg/m²)</td><td>0.20</td><td>0.40</td></tr></table> | Wet-film thickness WFT (µm) | 150 | 300 | Dry-film thickness DFT (µm) | 60 | 120 | Theoretical spreading rate (m ² /kg) | 5.60 | 2.80 | Theoretical spreading rate (kg/m ²) | 0.20 | 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: | 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 soap and water. In case of contact with 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: | See the Declaration of Conformity | | | | | | | | | | | | |