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| Product name | Unit | SÄKAPHEN® Si 17® TC |
| Properties | - | Heat Cured Duroplast |
| Resin base | - | Phenolic resin blend |
| Field of Application | - | For the coating of ISO tank containers, process vessels, pipe works, rotating equipment and other equipment where excellent chemical resistance as well as abrasion resistance and/or enhanced permeation resistance ($\Delta t < 65^\circ\text{C}$) is needed.. |
| Cure Mechanism | - | Heat cured |
| Quantity of components | - | 1 |
| Color | - | Anthracite |
| Surface | - | Satin finished |
| General chemical resistance (All resistances have to be inquired separately!) | - | Abrasion resistant with enhanced permeation resistance and chemically resistant to various substances ranging from strongly acidic to light alkaline aqueous liquids and vapors, fume gases, organic and inorganic acids, chlorinated aromatic and aliphatic hydrocarbons, all types of cooling waters including brackish, river and sea water as well as deionized water, oils and greases. |
| pH Range | pH | 1-8 |
| Wet Film Thickness per layer | μm | 100 |
| Total dry film thickness | μm | 180-200 |
| Coverage | approx. kg/m ² /DFT | 1,1 kg / m ² / 200 μm |
| Surface Preparation | Sa | SA2 ½ - SA 3 |
| Surface Profile | μm | 40 - 60 μm |
| Temperature resistance dry (dry air oven) | $^\circ\text{C}$ | -20 $^\circ\text{C}$ to +180 $^\circ\text{C}$ /200 $^\circ\text{C}$ |
| Temperature resistance wet (water) | $^\circ\text{C}$ | -20 $^\circ\text{C}$ to +180 $^\circ\text{C}$ /200 $^\circ\text{C}$ |
| Resistance to water vapor diffusion | $^\circ\text{C}$ | $\leq \Delta T 65^\circ\text{C}$ |
| Overcoating Waiting Time | hours/23 $^\circ\text{C}$ | no limitations |
| Chemical Curing | days | after final bake |
| Linear Thermal Expansion | μm | (VDE 0304): 29*10 ⁻⁶ mm/mm $^\circ\text{C}$ |
| Pore testing | Volts | 67,5 |
| Pendulum hardness acc. to König | 6 $^\circ$ sec | 153 |
| Shore D Hardness | Shore D | 95 |
| Adhesion Test | N/mm ² [MPa] | >30 |
| Salt spray test | hours | 1250 |
| Impact Strength | mm (1 kg) | > 1000 |
| Surface smoothness (Ra) | μm Ø 3 readings | 1,27 |
| Surface tension | mN/m | >38 <41 |
| Abrasion resistance | mg/1000 r. | under examination |
| Crosscut | class | 0 |
| Heat conductivity Ø 12,7x2,0mm on C-Steel with 67,37 w/mK | W/mK | n/a |

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