

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 <b>(All resistances have to be inquired separately!)</b>	-	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	$\mu\text{m}$	100
Total dry film thickness	$\mu\text{m}$	180-200
Coverage	approx. kg/m <sup>2</sup> /DFT	1,1 kg / m <sup>2</sup> / 200 $\mu\text{m}$
Surface Preparation	Sa	SA2 ½ - SA 3
Surface Profile	$\mu\text{m}$	40 - 60 $\mu\text{m}$
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	$\mu\text{m}$	(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 <sup>2</sup> [MPa]	>30
Salt spray test	hours	1250
Impact Strength	mm (1 kg)	> 1000
Surface smoothness (Ra)	$\mu\text{m}$ Ø 3 readings	1,27
Surface tension	mN/m	>38 <41
Taber Abrasion resistance	CS17, 1kg load mg/1000r.	6
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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