

Product name	Unit	SÄKAPHEN® Si 57® DCS
Properties	-	Heat Cured Duroplast Coating
Resin base	-	Phenolic epoxy resin blend
Field of Application	-	Particularly suitable for the coating of heat exchangers. With 9 Moh's hardness, the fillers are partially almost as hard as diamonds with hardness 10.
Cure Mechanism	-	Heat cured
Quantity of components	-	1
Color	-	olive grey
Surface	-	Satin finished, smooth
General chemical resistance (All resistances have to be inquired separately!)	-	Chemically and abrasion resistant to liquid and gaseous media, ranging from highly alkaline to weakly acidic, cooling waters of all kinds, incl. brackish, river, and sea water, as well as deionized water, inorganic salt solutions, oils and greases and gases. Offers excellent insulation characteristics.
pH Range	pH	3-14
Wet Film Thickness per layer	µm	100
Total dry film thickness	µm	180-200
Coverage	approx. kg/m <sup>2</sup> /DFT	1,3 kg / m <sup>2</sup> / 200µm
Surface Preparation	Sa	SA2 ½ - SA 3
Surface Profile	µm	40 - 60 µm
Temperature resistance dry (dry air oven)	°C	-20°C to +180°C/200°C
Temperature resistance wet (water)	°C	-20°C to +180°C/200°C
Resistance to water vapor diffusion	°C	≤ ΔT 30°C
Overcoating Waiting Time	hours/23°C	no limitations
Chemical Curing	days	after final bake
Linear Thermal Expansion	µm	n/a
Pore testing	Volts	67,5
Pendulum hardness acc. to König	6° sec	130
Shore D Hardness	Shore D	94
Adhesion Test	N/mm <sup>2</sup> [MPa]	> 30
Salt spray test	hours	under examination
Impact Strength	mm (1 kg)	800
Surface smoothness (Ra)	µm Ø 3 readings	1,2
Surface tension	mN/m	<36
Taber Abrasion resistance	CS17, 1kg load mg/1000r.	8
Crosscut	class	0-1
Heat conductivity Ø 12,7x2,0mm on C-Steel with 67,37 w/mK	W/mK	n/a

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