

Product name	Unit	SÄKAPHEN® Si 57® E
Properties	-	Heat Cured Duroplast
Resin base	-	Phenolic epoxy resin blend
Field of Application	-	For (flood-) coating of tubular heat exchangers achieving the dry film thickness, surface finish and performance of SÄKAPHEN® Si 57® E, but with only one product and in 2 to 3 layers.
Cure Mechanism	-	Heat cured
Quantity of components	-	1
Color	-	Brown
Surface	-	Glossy
General chemical resistance (All resistances have to be inquired separately!)	-	Resistant to various substances ranging from strongly alkaline to weak acidic media, all type of cooling waters including brackish, river, sea and deionized water, salt solutions, greases, oils, solvents, gases.
pH Range	pH	3 - 14
Wet Film Thickness per layer	µm	100
Total dry film thickness	µm	180-200
Coverage	approx. kg/m ² /DFT	1,0 kg / m ² / 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	< Δ 30°C
Overcoating Waiting Time	hours/23°C	no limitations
Chemical Curing	days	after final bake
Linear Thermal Expansion	µm	(VDE 0304): 44*10-6 mm/mm°C
Pore testing	Volts	67,5
Pendulum hardness acc. to König	6° sec	219
Shore D Hardness	Shore D	86
Adhesion Test	N/mm ² [MPa]	>25
Salt spray test	hours	under examination
Impact Strength	mm (1 kg)	> 1000
Surface smoothness (Ra)	µm Ø 3 readings	<1
Surface tension	mN/m	<28
Taber Abrasion resistance	CS17, 1kg load mg/1000r.	27
Crosscut	class	0
Heat conductivity Ø 12,7x2,0mm on C-Steel with 67,37 w/mK	W/mK	2,51

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