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Product Data Sheet

Product name	Unit	**SÄKAPHEN® Si 57® EG**
Properties	-	**Heat Cured Duroplast Coating**
Resin base	-	**Phenolic epoxy resin blend**
Field of Application	-	**For coating of heat exchangers, air coolers, condensers and evaporators, housings of turbo machinery, uninsulated tanks and process tanks, condensate tanks, desalination, thermal degasifiers and pipelines. Especially suitable for plant parts that are exposed to hot water and steam in slightly sour to alkaline environment. The coating is resistant to water vapour diffusion.**
Cure Mechanism	-	**Heat cured**
Quantity of components	-	**1**
Color	-	**Brown**
Surface	-	**Matt**
General chemical resistance **(All resistances have to be inquired separately!)**	-	**Diffusion resistance and chemically resistant to various substances from aqueous alkaline to weak acidic media and vapours of all types of cooling waters including brackish, river and sea water.**
pH Range	pH	**4 - 13**
Wet Film Thickness per layer	µm	**100**
Total dry film thickness	µm	**250**
Coverage	approx. kg/m²/DFT	**1,4 kg / m² / 250µm**
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 85°C**
Overcoating Waiting Time	hours/23°C	**no limitations**
Chemical Curing	days	**after final bake**
Linear Thermal Expansion	µm	**(VDE 0304): 34*10-6 mm/mm°C**
Pore testing	Volts	**67,5**
Pendulum hardness acc. to König	6° sec	**112**
Shore D Hardness	Shore D	**94**
Adhesion Test	N/mm² [MPa]	**> 20**
Salt spray test	hours	**under examination**
Impact Strength	mm (1 kg)	**> 1000**
Surface smoothness (Ra)	µm Ø 3 readings	**1,95**
Surface tension	mN/m	**n/a**
Taber Abrasion resistance	CS17, 1kg load mg/1000r.	**n/a**
Crosscut	class	**0**
Heat conductivity Ø 12,7x2,0mm on C-Steel with 67,37 w/mK	W/mK	**3,12**