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Product Data Sheet

Product name	Unit	**SÄKAPHEN® Si 570 AR**
Properties	-	**Heat Cured Duroplast Coating**
Resin base	-	**Phenolic epoxy resin blend**
Field of Application	-	**In particular for the coating of impellers and parts that are exposed to aggressive and abrasive alkaline substances at high temperature.**
Cure Mechanism	-	**Heat cured**
Quantity of components	-	**1**
Color	-	**Dark grey**
Surface	-	**Satin finished**
General chemical resistance **(All resistances have to be inquired separately!)**	-	**Abrasion resistant and chemically resistant to liquids, fumes and mist also in droplets of strong alkaline to weak acidic media, all types of cooling waters including brackish, river and sea water as well as deionized water, salt solutions, greases, oils, solvents, gases.**
pH Range	pH	**4-13**
Wet Film Thickness per layer	µm	**100**
Total dry film thickness	µm	**180-200**
Coverage	approx. kg/m²/DFT	**1,8 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 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	**132**
Shore D Hardness	Shore D	**94**
Adhesion Test	N/mm² [MPa]	**> 30**
Salt spray test	hours	**n/a**
Impact Strength	mm (1 kg)	**> 1000**
Surface smoothness (Ra)	µm Ø 3 readings	**1,94**
Surface tension	mN/m	**<28**
Taber Abrasion resistance	CS17, 1kg load mg/1000r.	**8**
Crosscut	class	**0**
Heat conductivity Ø 12,7x2,0mm on C-Steel with 67,37 w/mK	W/mK	**4,65**