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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
Coverage	approx. kg/m ² /DFT	1,8 kg / m ² / 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/mm ² [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
Abrasion resistance	mg/1000 r.	under examination
Crosscut	class	0
Heat conductivity Ø 12,7x2,0mm on C-Steel with 67,37 w/mK	W/mK	4,65