## SÄKAPHEN GmbH Bottroper Straße 275 45964 Gladbeck/Germany Phone: +49 2043 947-0 Fax: +49 2043 947-130 E-Mail: info@saekaphen.de

## **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 a high temperature.
Cure Mechanism	-	Heat cured
Quantity of components	-	1
Color	-	Dark grey
Surface	-	Satin finished
Cure Mechanism Quantity of components Color Surface  General chemical resistance (All resistances have to be inquired separately!)  pH Range Wet Film Thickness per layer Total dry film thickness Coverage		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	рН	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
Surface Preparation Surface Profile Temperature resistance dry (dry air oven) Temperature resistance wet (water) Resistance to water vapor diffusion Overcoating Waiting Time	°C	-20°C to +180°C/200°C
Resistance to water vapor diffusion	°C	≤ ∆T 30°C
Overcoating Waiting Time	hours/23°C	no limitations
Chemical Curing	days	after final bake
Chemical Curing Linear Thermal Expansion	μm	n/a
	Volts	67,5
Pore testing Pendulum hardness acc. to König Shore D Hardness Adhesion Test Salt spray test	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)  Surface tension  Taber Abrasion resistance	μm Ø 3 readings	1,94
Surface tension	mN/m	<28
Taber Abrasion resistance	CS17, 1kg load mg/1000r.	8
Crosscut	class	0
Crosscut  Heat conductivity Ø 12,7x2,0mm on C-Steel with 67,37 w/mK	W/mK	4,65

All recommendations contained herein are correct to the best of our knowledge. We do, however, not bear any responsibility for the accuracy of the contents.

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