

Product name	Unit	SÄKAPHEN® SÄKAFLAKE® 900 Schwarz 3K
Properties	-	Cold Cured Duroplast Coating
Resin base	-	Novolac Vinyl Ester, glass flake filled
Field of Application	-	For the coating of chamber parts of heat exchangers, evaporators and air coolers, blowers, fans and compressor casings, flue gas funnels/channels, flue gas desulfurization equipment, wash towers, process and storage tanks, vessels and containers. For equipment requiring a coating resistant to water vapour diffusion also with high temperature gradients and electrical conductivity (electrical surface resistance is less than $10^7 \Omega$).
Cure Mechanism	-	Cold Cured Duroplast Coating
Quantity of components	-	3
Color	-	Anthracite
Surface	-	Matt rough
General chemical resistance (All resistances have to be inquired separately!)	-	The coating distinguishes itself through high temperature- and diffusion resistance and excellent chemical resistance against aggressive substances such as acids, bases, solvents, salt solvents, fluegas and all types of water, including brackish, river and sea water as well as deionized water.
pH Range	pH	1-12
Wet Film Thickness per layer	μm	500 μm
Total dry film thickness	μm	1500
Coverage	approx. kg/m ² /DFT	3,3 kg / m ² / 1500 μm
Surface Preparation	Sa	SA2 ½ - SA 3
Surface Profile	μm	100
Temperature resistance dry (dry air oven)	°C	-20°C to +180°C
Temperature resistance wet (water)	°C	-20°C to 100°C
Resistance to water vapor diffusion	°C	$\leq \Delta T 85^\circ\text{C}$
Overcoating Waiting Time	hours/23°C	min. 12 hours,
Chemical Curing	days	8
Linear Thermal Expansion	μm	n/a
Pore testing	Volts	not possible / conductive
Pendulum hardness acc. to König	6° sec	n/a
Shore D Hardness	Shore D	80
Adhesion Test	N/mm ² [MPa]	7 - 11
Salt spray test	hours	n/a
Impact Strength	mm (1 kg)	1 Mon 450 / 6 Mon 750
Surface smoothness (Ra)	μm Ø 3 readings	3,50
Surface tension	mN/m	>44 <48
Taber Abrasion resistance, CS17 wheel, 1kg	mg/1000 r.	50
Crosscut	class	2
Heat conductivity Ø 12,7x2,0mm on C-Steel with 67,37 w/mK	W/mK	n/a

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