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Product name	Unit	SÄKAPHEN® Si 14® E
Properties	-	Heat Cured Duroplast
Resin base	-	Phenolic resin blend
Field of Application	-	For the coating of heat exchangers, air coolers, condensers, turbines and compressor rotors, impellers, salt dissolving installations, pipeworks, prover loops, centrifuges, tank containers.
Cure Mechanism	-	Heat cured
Quantity of components	-	1
Color	-	Dark Green
Surface	-	Glossy
General chemical resistance (All resistances have to be inquired separately!)	-	Resistant to organic and inorganic acids, salt solutions, aliphatic and aromatic hydrocarbons, fume gases, alcohols, cooling water including brackish, river and sea water as well as deionized water.
pH Range	pH	1 - 8
Wet Film Thickness per layer	µm	100
Total dry film thickness	µm	180-200
Coverage	approx. kg/m <sup>2</sup> /DFT	1 kg / m <sup>2</sup> / 200µm
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 time limitations
Chemical Curing	days	after final bake
Linear Thermal Expansion	µm	(VDE 0304): 33*10-6 mm/mm°C
Pore testing	Volts	67,5
Pendulum hardness acc. to König	6° sec	213
Shore D Hardness	Shore D	94
Adhesion Test	N/mm <sup>2</sup> [MPa]	> 20
Salt spray test	hours	1400
Impact Strength	mm (1 kg)	> 1000
Surface smoothness (Ra)	µm Ø 3 readings	0,89
Surface tension	mN/m	> 28 < 35
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	2,65