

## Product Data Sheet



Product name	Unit	SÄKAPHEN® Si 14® EG
Properties	-	Heat Cured Duroplast
Resin base	-	Phenolic resin blend
Field of Application	-	For the coating of condensers, condensate receivers, evaporators, thermal degassers, hot water and steam stressed plant parts, uninsulated tanks. Especially suitable for plant parts that are exposed to hot water and steam in neutral and acidic environment. The coating is resistant to water vapour diffusion.
Cure Mechanism	-	Heat cured
Quantity of components	-	1
Color	-	Red
Surface	-	Matt
General chemical resistance (All resistances have to be inquired separately!)	-	Diffusion resistant and chemically resistant to various weak acidic to light alkaline aqueous liquids and vapors, fume gases, organic and inorganic acids, aromatic and aliphatic solvents, all types of cooling waters including brackish, river and sea water.
pH Range	pH	3 - 8
Wet Film Thickness per layer	µm	100
Total dry film thickness	µm	250
Coverage	approx. kg/m²/DFT	1,3 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 85°C
Overcoating Waiting Time	hours/23°C	no limitations
Chemical Curing	days	after final bake
Linear Thermal Expansion	µm	(VDE 0304): 22*10-6 mm/mm°C
Pore testing	Volts	67,5
Pendulum hardness acc. to König	6° sec	134
Shore D Hardness	Shore D	94
Adhesion Test	N/mm² [MPa]	> 20
Salt spray test	hours	under examination
Impact Strength	mm (1 kg)	> 1000
Surface smoothness (Ra)	µm Ø 3 readings	2,00
Surface tension	mN/m	n/a
Taber Abrasion resistance	CS17, 1kg load mg/1000r.	n/a
Crosscut	class	1
Heat conductivity Ø 12,7x2,0mm on C-Steel with 67,37 w/mK	W/mK	3,46

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. No part of this document may be reproduced without the prior permission of SÄKAPHEN GmbH, Bottroper Straße 275, 45964 Gladbeck/Germany.