

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.

Product name	Unit	SÄKAPHEN® Si 17® TC Antibakteriell
Properties	-	Heat Cured Duroplast
Resin base	-	Phenolic resin blend
Field of Application	-	For the coating of ISO tank containers, process vessels, pipe works, rotating equipment and other equipment where excellent chemical resistance as well as abrasion resistance and/or enhanced permeation resistance ($\Delta t < 65^\circ\text{C}$) in combination with antibacterial properties of the coating.
Cure Mechanism	-	Heat cured
Quantity of components	-	1
Color	-	reddish
Surface	-	Satin finished
General chemical resistance (All resistances have to be inquired separately!)	-	Abrasion resistant with enhanced permeation resistance and antispetic properties, chemically resistant to various mediums ranging from strongly acidic to light alkaline aqueous liquids and vapors, fume gases, organic and inorganic acids, chlorinated aromatic and aliphatic hydrocarbon, all types of cooling waters including brackish, river and sea water as well as deionized water, oils and greases.
pH Range	pH	1-8
Wet Film Thickness per layer	μm	100
Total dry film thickness	μm	180
Coverage	approx. kg/m ² /DFT	1,1 kg / m ² / 200 μm
Surface Preparation	Sa	SA2 ½ - SA 3
Surface Profile	μm	40 - 60 μm
Temperature resistance dry (dry air oven)	$^\circ\text{C}$	-20 $^\circ\text{C}$ to +180 $^\circ\text{C}$ /200 $^\circ\text{C}$
Temperature resistance wet (water)	$^\circ\text{C}$	-20 $^\circ\text{C}$ to +180 $^\circ\text{C}$ /200 $^\circ\text{C}$
Resistance to water vapor diffusion	$^\circ\text{C}$	$\leq \Delta t$ 65 $^\circ\text{C}$
Overcoating Waiting Time	hours/23 $^\circ\text{C}$	no limitations
Chemical Curing	days	after final bake
Linear Thermal Expansion	μm	(VDE 0304): 29*10-6 mm/mm $^\circ\text{C}$
Pore testing	Volts	67,5
Pendulum hardness acc. to König	6 $^\circ$ sec	153
Shore D Hardness	Shore D	95
Adhesion Test	N/mm ² [MPa]	>30
Salt spray test	hours	1250
Impact Strength	mm (1 kg)	> 1000
Surface smoothness (Ra)	μm Ø 3 readings	1,27
Surface tension	mN/m	>38 <41
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	n/a