

Product Data Sheet



Product name	Unit	SÄKAPHEN® HR 60® Extra G Black / Schwarz
Properties	-	Cold Cured Duroplast Coating
Resin base	-	Amine cured Epoxy system
Field of Application	-	For the lining of substrates requiring a smooth, low friction surface offering anti-static properties in potentially flammable areas. These can be found in Tanks, Silos, Funnels and Trays where flammable products are being stored or discharged. The lining is electrical conductive (electrical surface resistance is less than $10^7 \Omega$ at 500 microns).
Cure Mechanism	-	Cold Cured Duroplast Coating
Quantity of components	-	2
Color	-	Black
Surface	-	Satin
General chemical resistance (All resistances have to be inquired separately!)	-	SÄKAPHEN HR 60 Extra G (Black) is chemically resistant to various acidic and strongly alkaline substances ranging from fuels and hydrocarbons to all types of water (including brackish, river and sea water and deionized water).
pH Range	pH	1-13
Wet Film Thickness per layer	μm	150
Total dry film thickness	μm	400-500
Coverage	approx. $\text{kg/m}^2/\text{DFT}$	1,3 kg / m^2 / 500 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 +120 $^{\circ}\text{C}$
Temperature resistance wet (water)	$^{\circ}\text{C}$	-20 $^{\circ}\text{C}$ to 70 $^{\circ}\text{C}$
Resistance to water vapor diffusion	$^{\circ}\text{C}$	$\leq \Delta T$ 30 $^{\circ}\text{C}$
Overcoating Waiting Time	hours/23 $^{\circ}\text{C}$	8-24
Chemical Curing	days	7-10
Linear Thermal Expansion	μm	n/a
Pore testing	Volts	2000
Pendulum hardness acc. to König	6° sec	133
Shore D Hardness	Shore D	84
Adhesion Test	N/mm^2 [MPa]	> 20
Salt spray test	hours	1250
Impact Strength	mm (1 kg)	550
Surface smoothness (Ra)	μm Ø 3 readings	0,3
Surface tension	mN/m	>28 <35
Taber Abrasion resistance, CS17 wheel, 1kg	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

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Product Data Sheet



Product name	Unit	SÄKAPHEN® HR 60® Extra G Grün / Green
Properties	-	Cold Cured Duroplast Coating
Resin base	-	Amine cured Epoxy system
Field of Application	-	For the coating of blowers, fans and compressors, the corresponding houses, tanks and vessels, piping, spools and prover loops, for the applications in water treatment and desalination.
Cure Mechanism	-	Cold Cured Duroplast Coating
Quantity of components	-	2
Color	-	Green
Surface	-	Glossy
General chemical resistance (All resistances have to be inquired separately!)	-	Resistant to all types of water, including brackish, river and sea water as well as deionized water, various substances ranging from sour to strongly alkaline, inorganic salts and their solutions, fuels, acidic aqueous solution.
pH Range	pH	1-13
Wet Film Thickness per layer	µm	150
Total dry film thickness	µm	400-500
Coverage	approx. kg/m²/DFT	1,2 kg / m² / 500µm
Surface Preparation	Sa	SA2 ½ - SA 3
Surface Profile	µm	40 - 60 µm
Temperature resistance dry (dry air oven)	°C	-20°C to +120°C
Temperature resistance wet (water)	°C	-20°C to 70°C
Resistance to water vapor diffusion	°C	≤ ΔT 30°C
Overcoating Waiting Time	hours/23°C	8-24
Chemical Curing	days	7-10
Linear Thermal Expansion	µm	(VDE 0304): 4*10-6 K-1
Pore testing	Volts	2000
Pendulum hardness acc. to König	6° sec	133
Shore D Hardness	Shore D	84
Adhesion Test	N/mm² [MPa]	> 20
Salt spray test	hours	1250
Impact Strength	mm (1 kg)	500
Surface smoothness (Ra)	µm Ø 3 readings	0,20
Surface tension	mN/m	>28 <35
Taber Abrasion resistance, CS17 wheel, 1kg	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

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Product Data Sheet



Product name	Unit	SÄKAPHEN® HR 60® Extra G Rot / Red
Properties	-	Cold Cured Duroplast Coating
Resin base	-	Amine cured Epoxy system
Field of Application	-	For the coating of blowers, fans and compressors, the corresponding houses, tanks and vessels, piping, spools and prover loops, for the applications in water treatment and desalination.
Cure Mechanism	-	Cold Cured Duroplast Coating
Quantity of components	-	2
Color	-	Red
Surface	-	Glossy
General chemical resistance (All resistances have to be inquired separately!)	-	Resistant to all types of water, including brackish, river and sea water as well as deionized water, various substances ranging from sour to strongly alkaline, inorganic salts and their solutions, fuels, acidic aqueous solution and concentrated hydrochloric acid (36%).
pH Range	pH	1-13
Wet Film Thickness per layer	µm	150
Total dry film thickness	µm	400-500
Coverage	approx. kg/m²/DFT	1,3 kg / m² / 500µm
Surface Preparation	Sa	SA2 ½ - SA 3
Surface Profile	µm	40 - 60 µm
Temperature resistance dry (dry air oven)	°C	-20°C to +120°C
Temperature resistance wet (water)	°C	-20°C to 70°C
Resistance to water vapor diffusion	°C	≤ ΔT 30°C
Overcoating Waiting Time	hours/23°C	8-24
Chemical Curing	days	7-10
Linear Thermal Expansion	µm	(VDE 0304): 4*10 ⁻⁶ K ⁻¹
Pore testing	Volts	2000
Pendulum hardness acc. to König	6° sec	133
Shore D Hardness	Shore D	84
Adhesion Test	N/mm² [MPa]	> 20
Salt spray test	hours	1250
Impact Strength	mm (1 kg)	550
Surface smoothness (Ra)	µm Ø 3 readings	0,40
Surface tension	mN/m	>28 <35
Taber Abrasion resistance, CS17 wheel, 1kg	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

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Product Data Sheet



Product name	Unit	SÄKAPHEN® HR 60® Extra TG
Properties	-	Cold Cured Duroplast Coating
Resin base	-	Amine cured Epoxy system
Field of Application	-	For the coating of water chambers, blowers, fans, and compressor housings, tanks without insulation, condensate reservoirs, desalination and water treatment plants and pipelines, for equipment where a coating resistant to water vapour diffusion is needed.
Cure Mechanism	-	Cold Cured Duroplast Coating
Quantity of components	-	2
Color	-	Dark brown
Surface	-	Matt
General chemical resistance (All resistances have to be inquired separately!)	-	Diffusion resistant and chemically resistant to all types of water, including brackish, river and sea water up to 100°C in permanent immersion, various substances ranging from sour to strongly alkaline, inorganic salts and their solutions, acidic aqueous solutions.
pH Range	pH	4 - 12
Wet Film Thickness per layer	µm	150
Total dry film thickness	µm	300-350
Coverage	approx. kg/m²/DFT	1,6 kg / m² / 350µm
Surface Preparation	Sa	SA2 ½ - SA 3
Surface Profile	µm	40 - 60 µm
Temperature resistance dry (dry air oven)	°C	-20°C to +120°C
Temperature resistance wet (water)	°C	-20°C to 105°C
Resistance to water vapor diffusion	°C	≤ ΔT 85°C
Overcoating Waiting Time	hours/23°C	12-48
Chemical Curing	days	8
Linear Thermal Expansion	µm	n/a
Pore testing	Volts	67,5
Pendulum hardness acc. to König	6° sec	63
Shore D Hardness	Shore D	84
Adhesion Test	N/mm² [MPa]	> 8
Salt spray test	hours	n/a
Impact Strength	mm (1 kg)	1000
Surface smoothness (Ra)	µm Ø 3 readings	2,18
Surface tension	mN/m	>35 <38
Taber Abrasion resistance, CS17 wheel, 1kg	mg/1000 r.	under examination
Crosscut	class	1
Heat conductivity Ø 12,7x2,0mm on C-Steel with 67,37 w/mK	W/mK	n/a

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Product Data Sheet



Product name	Unit	SÄKAPHEN® SÄKALINE 200
Properties	-	Cold Cured Duroplast Coating
Resin base	-	Amine cured Epoxy system
Field of Application	-	Ceramic filled epoxy coating for the coating of boilers and other hot water tanks, industrial water and for sewage gas containers in the paper and pulp industry.
Cure Mechanism	-	Cold Cured Duroplast Coating
Quantity of components	-	2
Color	-	Light grey
Surface	-	Matt
General chemical resistance (All resistances have to be inquired separately!)	-	Resistant to various substances ranging from slightly sour to alkaline including all types of water, including brackish, river and sea water as well as deionized water.
pH Range	pH	n/a
Wet Film Thickness per layer	µm	400 µm
Total dry film thickness	µm	1000-2000
Coverage	approx. kg/m²/DFT	2,0 kg / m² / 1000µm
Surface Preparation	Sa	SA2 ½ - SA 3
Surface Profile	µm	40 - 60 µm
Temperature resistance dry (dry air oven)	°C	10°C - 150°C
Temperature resistance wet (water)	°C	10°C - 85°C
Resistance to water vapor diffusion	°C	≤ ΔT 30°C
Overcoating Waiting Time	hours/23°C	8-48
Chemical Curing	days	7-10
Linear Thermal Expansion	µm	n/a
Pore testing	Volts	4000
Pendulum hardness acc. to König	6° sec	174
Shore D Hardness	Shore D	84
Adhesion Test	N/mm² [MPa]	20,65
Salt spray test	hours	15000
Impact Strength	mm (1 kg)	1000
Surface smoothness (Ra)	µm Ø 3 readings	0,29
Surface tension	mN/m	>28 <31
Taber Abrasion resistance, CS17 wheel, 1kg	mg/1000 r.	50
Crosscut	class	n/a
Heat conductivity Ø 12,7x2,0mm on C-Steel with 67,37 w/mK	W/mK	n/a

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Product Data Sheet



Product name	Unit	SÄKAPHEN® SÄKATONIT® Extra AR
Properties	-	Cold Cured Duroplast Coating
Resin base	-	Amine cured Epoxy system
Field of Application	-	For the coating of tube sheets, pipe work and prover loops, spill boxes, water boxes, blower-, fan- and compressor housings, tanks, vessels, inside of filters, valves and agitators. Certain surface imperfections can be covered up by thickness of applied material.
Cure Mechanism	-	Cold Cured Duroplast Coating
Quantity of components	-	2
Color	-	Anthracite
Surface	-	Glossy
General chemical resistance (All resistances have to be inquired separately!)	-	Enhanced mechanical and impact resistance as well as chemically resistant to all types of water, including brackish, river and sea water as well as deionized water, various substances ranging from sour to strongly alkaline, inorganic salts and their solutions, fuels, acidic aqueous solution and concentrated hydrochloric acid (36%).
pH Range	pH	1-13
Wet Film Thickness per layer	µm	250
Total dry film thickness	µm	500 (chemical resistance) 1500 (mechanical resistance)
Coverage	approx. kg/m²/DFT	4,4 / m² / 1500µm
Surface Preparation	Sa	SA2 ½ - SA 3
Surface Profile	µm	100
Temperature resistance dry (dry air oven)	°C	-20°C to +120°C
Temperature resistance wet (water)	°C	-20°C to 70°C
Resistance to water vapor diffusion	°C	≤ ΔT 30°C
Overcoating Waiting Time	hours/23°C	8-24
Chemical Curing	days	7-10
Linear Thermal Expansion	µm	n/a
Pore testing	Volts	5000
Pendulum hardness acc. to König	6° sec	132
Shore D Hardness	Shore D	83
Adhesion Test	N/mm² [MPa]	> 20
Salt spray test	hours	n/a
Impact Strength	mm (1 kg)	1000
Surface smoothness (Ra)	µm Ø 3 readings	0,72
Surface tension	mN/m	>28 <35
Taber Abrasion resistance, CS17 wheel, 1kg	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

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Product Data Sheet



Product name	Unit	SÄKAPHEN® SÄKATONIT® K 80 LS
Properties	-	Cold Cured Duroplast Coating
Resin base	-	Amine cured Epoxy system
Field of Application	-	For the coating of tube sheets in power plants, in water treatment and desalination plants and in the chemical industry.
Cure Mechanism	-	Cold Cured Duroplast Coating
Quantity of components	-	2
Color	-	Red
Surface	-	Glossy
General chemical resistance (All resistances have to be inquired separately!)	-	Resistant to all types of water, including brackish, river and sea water as well as deionized water, various substances ranging from sour to strongly alkaline, inorganic salts and their solutions.
pH Range	pH	1-13
Wet Film Thickness per layer	µm	150
Total dry film thickness	µm	to the length of the jet out tubes
Coverage	approx. kg/m ² /DFT	1,3 kg / m ² / 500µm
Surface Preparation	Sa	SA2 ½ - SA 3
Surface Profile	µm	40 - 60 µm
Temperature resistance dry (dry air oven)	°C	-20°C to +90°C
Temperature resistance wet (water)	°C	-20°C to 70°C
Resistance to water vapor diffusion	°C	≤ ΔT 30°C
Overcoating Waiting Time	hours/23°C	8-24
Chemical Curing	days	7-10
Linear Thermal Expansion	µm	n/a
Pore testing	Volts	n/a
Pendulum hardness acc. to König	6° sec	147
Shore D Hardness	Shore D	83
Adhesion Test	N/mm ² [MPa]	13 troweling) 17 (primer, topcoat)
Salt spray test	hours	n/a
Impact Strength	mm (1 kg)	1000
Surface smoothness (Ra)	µm Ø 3 readings	0,195
Surface tension	mN/m	<28
Taber Abrasion resistance, CS17 wheel, 1kg	mg/1000 r.	under examination
Crosscut	class	n/a
Heat conductivity Ø 12,7x2,0mm on C-Steel with 67,37 w/mK	W/mK	n/a

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Product Data Sheet



Product name	Unit	SÄKAPHEN® SÄKALINE KTW
Properties	-	Cold Cured Duroplast Coating
Resin base	-	Amine cured Epoxy System
Field of Application	-	For the coating of vessels, boilers, pipes and other equipment exposed to potable water or other food grade liquids.
Cure Mechanism	-	Cold Cured Duroplast Coating
Quantity of components	-	2
Color	-	Black
Surface	-	Satine finished
General chemical resistance (All resistances have to be inquired separately!)	-	Resistant to warm potable water (60°C) and aqueous sour and alkaline solutions.
pH Range	pH	3-12
Wet Film Thickness per layer	µm	> 300
Total dry film thickness	µm	400-1000
Coverage	approx. kg/m²/DFT	0,78 kg / m² / 600µm
Surface Preparation	Sa	SA2 ½ - SA 3
Surface Profile	µm	40 - 60 µm
Temperature resistance dry (dry air oven)	°C	85°C
Temperature resistance wet (water)	°C	60°C
Resistance to water vapor diffusion	°C	≤ ΔT 30°C
Overcoating Waiting Time	hours/23°C	min. 4 hours
Chemical Curing	days	7
Linear Thermal Expansion	µm	n/a
Pore testing	Volts	3200
Pendulum hardness acc. to König	6° sec	118
Shore D Hardness	Shore D	83
Adhesion Test	N/mm² [MPa]	20
Salt spray test	hours	n/a
Impact Strength	mm (1 kg)	100
Surface smoothness (Ra)	µm Ø 3 readings	4,6
Surface tension	mN/m	~28
Taber Abrasion resistance, CS17 wheel, 1kg	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

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Product Data Sheet



Product name	Unit	SÄKAPHEN® SÄKATONIT® Extra AR-F
Properties	-	Cold Cured Duroplast Coating
Resin base	-	Amine cured Epoxy system
Field of Application	-	For the external coating of (sea-) water immersed structures, such as box coolers.
Cure Mechanism	-	Cold Cured Duroplast Coating
Quantity of components	-	2
Color	-	Anthracite / Red / Green
Surface	-	Glossy
General chemical resistance (All resistances have to be inquired separately!)	-	Chemically resistant to all types of water, including brackish, river and sea water as well as deionized water.
pH Range	pH	1-13
Wet Film Thickness per layer	µm	60 - 80
Total dry film thickness	µm	100 - 200
Coverage	approx. kg/m ² /DFT	1,0 kg / m ² / 150µm
Surface Preparation	Sa	SA2 ½ - SA 3
Surface Profile	µm	40
Temperature resistance dry (dry air oven)	°C	-20°C to +120°C
Temperature resistance wet (water)	°C	-20°C to 70°C
Resistance to water vapor diffusion	°C	≤ ΔT 30°C
Overcoating Waiting Time	hours/23°C	8-24
Chemical Curing	days	7-10
Linear Thermal Expansion	µm	n/a
Pore testing	Volts	67,5
Pendulum hardness acc. to König	6° sec	132
Shore D Hardness	Shore D	83
Adhesion Test	N/mm ² [MPa]	> 20
Salt spray test	hours	n/a
Impact Strength	mm (1 kg)	1000
Surface smoothness (Ra)	µm Ø 3 readings	0,72
Surface tension	mN/m	>28 <35
Taber Abrasion resistance, CS17 wheel, 1kg	mg/1000 r.	under examination
Crosscut	class	0
Heat conductivity Ø 12,7x2,0mm on C-Steel with 67,37 w/mK	W/mK	2,67

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