

ELASTOSIL®

SEMICOSIL®

WACKER SiGel®

PRODUCT OVERVIEW

# INDUSTRIAL POTTING, ENCAPSULATION OR CASTING APPLICATIONS

Flowable RTV silicone grades

Main characteristics	Brand	Product	Product type / curing system	Shrink-free curing	By-product of curing	Additional features	Self-adhesive after curing at room temperature	Food compliance	Viscosity [mPa·s]	Potlife	Hardness [Shore A]	Tensile strength [MPa]	Elongation at break [%]	Tear strength [N/mm]	Density, cured [g/cm <sup>3</sup> ]	Recommended max. service temperature [°C]	Aspect / color
General purpose	ELASTOSIL®	RT 402	RTV-2 / condensation cure (Base + Catalyst 100:3)*		Alcohol	Antistatic			13,000	75 min	11	2.0	350	3	1.28	160	Light gray
	ELASTOSIL®	RT 563	RTV-2 / condensation cure (Base + Catalyst 100:4)*		Alcohol	Excellent flowability			5,000	35 min	55	4.5	120	3	1.27	180	Beige
	ELASTOSIL®	RT K	RTV-2 / condensation cure (Base + Catalyst 100:4)*		Alcohol	Excellent flowability			7,000	30 min	45	2.0	130	3	1.22	180	Light gray
	ELASTOSIL®	RT 601	RTV-2 / platinum cure (A/B 9:1)	X		Crystal clear		X	3,500	90 min	45	6.0	100		1.02	150	Transparent
	ELASTOSIL®	RT 604	RTV-2 / platinum cure (A/B 9:1)	X		Crystal clear		X	800	90 min	25	1.0	100	3	0.97	150	Transparent
	ELASTOSIL®	RT 628	RTV-2 / platinum cure (A/B 9:1)	X		High tear strength			50,000	60 min	50	3.5	230	11	1.23	180	Gray
	ELASTOSIL®	RT 743 LV-K	RTV-2 / platinum cure (A/B 1:1)	X		Thermally conductive			1,100	2 h	20	3.0	150		1.45	180	Gray
	ELASTOSIL®	RT 745	RTV-2 / platinum cure (A/B 1:1)	X			X		1,000	4 h	15	1.0	150		0.97	160	Brownish translucent
	ELASTOSIL®	RT 745 "S"	RTV-2 / platinum cure (A/B 1:1)	X		Soft elastomer	O		1,000	4 h	5	1.0	150		0.97	160	Brownish translucent
	SEMICOSIL®	911	RTV-2 / platinum cure (A/B 1:1)	X		Soft gel, thixotropic	X		8,000	1 h	-	-	-	-	0.99	160	Translucent
	SEMICOSIL®	912	RTV-2 / platinum cure (Base + Catalyst 10:1)**	X		Soft gel	X		1,000	Depending on catalyst used	-	-	-	-	0.97	160	Transparent
	WACKER SiGel®	612	RTV-2 / platinum cure (A/B 1:1)	X		Soft gel, crystal clear	X		1,000	150 min	-	-	-	-	0.97	160	Transparent
	WACKER SiGel®	613	RTV-2 / platinum cure (Base + Catalyst 10:1)**	X		Soft gel, crystal clear	X		200	Depending on catalyst used	-	-	-	-	0.97	160	Transparent
	High tear resistance	ELASTOSIL®	RT 620	RTV-2 / platinum cure (A/B 10:1)	X		Excellent mechanical properties		X	6,000	35 min	17	5.0	900	12	1.05	200
ELASTOSIL®		RT 622	RTV-2 / platinum cure (A/B 9:1)	X		Excellent mechanical properties		X	12,000	60 min	27	6.5	550	30	1.13	200	Reddish brown / gray
ELASTOSIL®		RT 623	RTV-2 / platinum cure (A/B 9:1)	X		Excellent mechanical properties		X	10,000	30 min	31	7.5	700	30	1.12	200	Reddish brown
ELASTOSIL®		RT 625	RTV-2 / platinum cure (A/B 9:1)	X		Excellent mechanical properties		X	12,000	60 min	25	6.5	600	30	1.10	180	Translucent
ELASTOSIL®		RT 629	RTV-2 / platinum cure (A/B 10:1)	X		Antistatic			8,000	40 min	31	6.0	500	25	1.13	180	Turquoise
ELASTOSIL®		RT 646	RTV-2 / platinum cure (A/B 10:1)	X		Good chemical resistance		X	70,000	80 min	53	5.0	280	12	1.28	180	Beige
ELASTOSIL®		RT 720	RTV-2 / platinum cure (A/B 1:1)	X			O		35,000	6 h	40	6.0	300		1.10	180	Gray
Heat resistance	ELASTOSIL®	RT 426	RTV-2 / condensation cure (Base + Catalyst 100:3)*		Alcohol	Thermally conductive			10,000	90 min	60	4.5	120	4	1.44	200	Reddish brown
	ELASTOSIL®	RT 428	RTV-2 / condensation cure (Base + Catalyst 100:3)*		Alcohol	Thermally conductive			12,000	100 min	65	6.0	90	5	1.53	200	Reddish brown
	ELASTOSIL®	RT 602	RTV-2 / platinum cure (A/B 9:1)	X				X	3,500	80 min	30	1.5	130		1.17	200	Light gray
	ELASTOSIL®	RT 607	RTV-2 / platinum cure (A/B 9:1)	X				X	12,000	80 min	55	3.0	100		1.43	210	Reddish brown
	ELASTOSIL®	RT 619	RTV-2 / platinum cure (A/B 9:1)	X		Flame retardant			9,500	60 min	50	3.9	120		1.42	230	Reddish brown
	ELASTOSIL®	RT 675	RTV-2 / platinum cure (A/B 1:1)	X		Thermally conductive		X	50,000	150 min	80	2.0	20		2.30	180	Reddish brown
	ELASTOSIL®	RT 685	RTV-2 / platinum cure (A/B 9:1)	X				X	40,000	48 h	40	4.0	250	5	1.10	200	Cream white
ELASTOSIL®	RT 772	RTV-2 / condensation cure (Base + Catalyst 10:1)***		Alcohol		X		37,000	5 min / 10 min ***	35	2.2	200		1.26	230	Black	
ELASTOSIL®	RT 706	1-component heat-curing / platinum cure	X			O		12,000	6 months	30	2.5	200		1.23	210	Red	
ELASTOSIL®	RT 707 W	1-component heat-curing / platinum cure	X			O		60,000	6 months	42	3.3	270		1.18	230	White	
Low-temperature flexibility	ELASTOSIL®	RTV-S 691	RTV-2 / platinum cure (A/B 9:1)	X		Flexible at very low temperature			20,000	100 min	55	4.5	130	5	1.42	200	Red
	ELASTOSIL®	S 692	RTV-2 / platinum cure (A/B 9:1)	X		Flexible at very low temperature			40,000	4 h	35	1.5	200	3	1.05	200	Black
	SEMICOSIL®	900 LT	RTV-2 / platinum cure (A/B 1:1)	X		Soft gel	X		13,000	2 h	-	-	-	-	1.00	160	Translucent

\* grade can be transformed into a self-adhesive silicone elastomer when cured with WACKER® Catalyst T 77 or WACKER® Catalyst T 77 PLUS in a mixing ratio of 10:1 (for details, please see the technical data sheets for WACKER Catalyst T 77 and T 77 PLUS)

\*\* base component to be combined with ELASTOSIL® CAT PT, ELASTOSIL® CAT PT-F or ELASTOSIL® CAT UV to allow curing at room temperature, under heat or by UV light (please see the corresponding technical data sheet for details)

\*\*\* base component to be combined with WACKER® Catalyst T 77 or WACKER® Catalyst T 77 PLUS (please see the corresponding technical data sheet for details)

O self-adhesive when cured at elevated temperature



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