

WACKER

CREATING TOMORROW'S SOLUTIONS

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 tem- perature	Food compli- ance	Viscosity [mPa·s]	Potlife	Hardness [Shore A]	Tensile strength [MPa]	Elonga- tion at break [%]	Tear strength [N/mm]	Density, cured [g/cm ³]	Recom- mended max. service tempera- ture [°C]	Aspect / color	Main characteristics Brand/ Product
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 402
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 563
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 K
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 601
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 604
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 628
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 743 LV-K
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
ELASTOSIL® RT 745 T	RTV-2 / platinum cure (A/B 1:1)	X		Soft elastomer	O		1,000	4 h	5	1.0	100		0.97	160	Brownish translucent	ELASTOSIL® RT 745 T
SEMICOSIL® 911	RTV-2 / platinum cure (A/B 1:1)	X		Soft gel, thixotropic	X		8,000	1 h	-	-	-	-	0.99	160	Translucent	SEMICOSIL® 911
SEMICOSIL® 912	RTV-2 / platinum cure (Base + Catalyst 10:1)**	X		Soft gel	X		1,000	Depending on catalyst used	-	-	-	-	0.97	160	Transparent	SEMICOSIL® 912
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® 612
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	WACKER SiGel® 613
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	Translucent	ELASTOSIL® RT 620
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 622
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 623
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 625
ELASTOSIL® RT 629	RTV-2 / platinum cure (A/B 10:1)			Antistatic			8,000	40 min	31	6.0	500	25	1.13	180	Turquoise	ELASTOSIL® RT 629
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 646
ELASTOSIL® RT 720	RTV-2 / platinum cure (A/B 10:1)	X			O		30,000	6 h	35	5.0	200		1.13	180	Gray	ELASTOSIL® RT 720
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 426
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 602
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 607
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 619
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 675
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 685
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 772
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 706
ELASTOSIL® RT 707 W	1-component heat-curing / platinum cure	X			O		60,000	6 months	42	3.3	270		1.18	230	White	ELASTOSIL® RT 707 W
Low-temperature flexibility																
WACKER® 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	WACKER® RTV-S 691
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	ELASTOSIL® S 692

* 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

Note: these figures are intended as a guide and should not be used in preparing specifications.

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