

WACKER

CREATING TOMORROW'S SOLUTIONS

ELASTOSIL®

SEMICOSIL®

PRODUCT OVERVIEW

INDUSTRIAL SEALING & BONDING APPLICATIONS

Non-slump RTV silicone grades (self-adhesive)



Main characteristics	Brand	Product	Product type / curing system	Shrink-free curing	By-product of curing	Additional features	Food compliance	Viscosity [mPa·s]	Potlife or skin forming time	Hardness [Shore A]	Tensile strength [MPa]	Elongation at break [%]	Tear strength [N/mm]	Density, cured [g/cm ³]	Recommended max. service temperature [°C]	CIPG	FIPG	Aspect / color
Self-adhesive after curing at room temperature																		
General purpose	ELASTOSIL®	E 4	RTV-1 / condensation cure		Acetic acid			Non-slump	20 min	15	2.0	750	7.3	1.02	180	X	X	Translucent
	ELASTOSIL®	E 43 N	RTV-1 / condensation cure		Acetic acid	Titanium catalyzed	X	300,000	5 min	30	8.0	500	13.5	1.10	180		X	Translucent / white / black
	ELASTOSIL®	E 900	RTV-1 / condensation cure		Acetic acid			Non-slump	10 min	20	0.6	300	4.2	1.02	230		X	Anthracite
	ELASTOSIL®	N 198	RTV-1 / condensation cure		Oxime			Non-slump	30 min	40	3.0	300	4.5	1.24	190		X	Gray / black
	ELASTOSIL®	N 2199	RTV-1 / condensation cure		Alcohol			Non-slump	15 min	30	2.5	350	4.0	1.06	180		X	Translucent
	ELASTOSIL®	N 9111	RTV-1 / condensation cure		Alcohol	Titanium catalyzed		Non-slump	25 min	30	2.2	500	10.0	1.33	180		X	White / gray / black
	ELASTOSIL®	RT 771	RTV-2 / condensation cure (Base + Catalyst 10:1)*		Alcohol			150,000	5 min / 10 min *	45	1.0	180		1.55	180			Black
	ELASTOSIL®	RT 774	RTV-2 / condensation cure (Base + Catalyst 10:1)*		Alcohol			Non-slump	5 min / 15 min *	38	2.1	300	6.2	1.37	180		X	Anthracite
Improved mechanical properties	ELASTOSIL®	E 47	RTV-1 / condensation cure		Acetic acid			Non-slump	5 min	35	4.5	450	10.0	1.07	180		X	Translucent
	ELASTOSIL®	N 199	RTV-1 / condensation cure		Oxime			Non-slump	30 min	35	4.9	500	12.0	1.09	180		X	Translucent
Heat resistance	ELASTOSIL®	A 33	RTV-1 / condensation cure		Amine			Non-slump	10 min	28	2.5	300	7.8	1.17	200		X	Ivory
	ELASTOSIL®	E 14	RTV-1 / condensation cure		Acetic acid			Non-slump	15 min	38	3.0	450	7.0	1.18	250		X	Red
	ELASTOSIL®	E 43 BLACK	RTV-1 / condensation cure		Acetic acid			300,000	15 min	30	6.2	600	11.5	1.10	250		X	Black
	ELASTOSIL®	RT 778	RTV-2 / condensation cure (Base + Catalyst 10:1)*		Alcohol	Fast cure		Non-slump	5 min / 10 min *	42	3.5	180	7.0	1.32	250		X	Black
Media resistance	ELASTOSIL®	N 189	RTV-1 / condensation cure		Oxime	Coolant resistant, oil resistant		Non-slump	10 min	32	2.0	300	7.0	1.09	250		X	Black
	ELASTOSIL®	N 2189	RTV-1 / condensation cure		Alcohol	Oil resistant		Non-slump	15 min	45	2.5	250	4.0	1.23	180		X	Black
	ELASTOSIL®	RT 779	RTV-2 / condensation cure (Base + Catalyst 10:1)**		Alcohol	Coolant resistant, oil resistant		Non-slump	5 min	50	2.8	250	9.5	1.32	180			X
Compressible	ELASTOSIL®	RT 773	RTV-2 / condensation cure (Base + Catalyst 10:1)*		Alcohol	Low density		Non-slump	5 min / 15 min *	35	1.2	110		0.70	140	X		Black
	ELASTOSIL®	SC 833	RTV-2 / platinum cure (A/B 1:1)		Hydrogen gas	Silicone foam, flame retardant		17,000	4 min	27	1.2	80		0.50	200	X		Black
	ELASTOSIL®	SC 835	RTV-2 / platinum cure (A/B 1:1)		Hydrogen gas	Silicone foam		15,000	240 s	20	0.45	80		0.45	200	X		Reddish brown
	ELASTOSIL®	SC 870	RTV-2 / platinum cure (A/B 1:1)		Hydrogen gas	Silicone foam, thixotropic		40,000	150 s	10	0.35	100		0.40	200	X		Gray
Self-adhesive after curing at elevated temperature																		
General purpose	ELASTOSIL®	RT 703	1-component heat-curing / platinum cure	X		Screen printable		Non-slump	6 months	33	2.0	360		1.03	200	X	X	Translucent
	ELASTOSIL®	RT 724	RTV-2 / platinum cure (Base + Catalyst 10:1)***	X				100,000	12 h	45	4.0	180	10.0	1.25	180		X	Blue
	SEMICOSIL®	986/1K	1-component heat-curing / platinum cure	X		UV fluorescent		Non-slump	6 months	51	5.0	200	8.0	1.07	180		X	Translucent
	SEMICOSIL®	987 GR	1-component heat-curing / platinum cure	X		Sealing adhesive		Non-slump	6 months	50	5.0	200		1.10	180		X	Gray
	SEMICOSIL®	988/1K gray	1-component heat-curing / platinum cure	X		Sealing adhesive		Non-slump	6 months	35	4.5	350	24.0	1.10	180	X	X	Gray
	SEMICOSIL®	989/1K	1-component heat-curing / platinum cure	X		Sealing adhesive		Non-slump	6 months	55	5.0	200	10.0	1.10	180		X	Translucent
	SEMICOSIL®	970 TC	RTV-2 / platinum cure (A/B 1:1)	X		Thermally conductive		94,000	16 h	65	4.0	90		2.26	160		X	White-gray
	SEMICOSIL®	975 TC	1-component heat-curing / platinum cure	X		Thermally conductive		Non-slump	3 months	90	3.0	30	6.0	3.30	160		X	Reddish gray
High tear resistance	ELASTOSIL®	RT 722	RTV-2 / platinum cure (A/B 1:1)	X		High tensile strength		Non-slump	6 h	45	6.0	300		1.10	180		X	Gray
Heat resistance	ELASTOSIL®	RT 702	1-component heat-curing / platinum cure	X				Non-slump	6 months	40	6.1	500	10.1	1.21	250		X	Black
Media resistance	ELASTOSIL®	RT 727	RTV-2 / platinum cure (A/B 1:1)	X		Coolant resistant		Non-slump	24 h	60	5.5	350	10.0	1.14	180	X	X	Gray
	ELASTOSIL®	RT 728	RTV-2 / platinum cure (A/B 1:1)	X		Coolant resistant		Non-slump	24 h	60	4.0	200	10.0	1.13	180	X		Opaque
Compressible	ELASTOSIL®	RT 713	1-component heat-curing / platinum cure	X		Low density		Non-slump	6 months	23	1.5	350	7.0	0.75	140	X		Gray

* 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)

** base component to be combined with WACKER® Catalyst T 79 (please see the corresponding technical data sheet for details)

*** 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)

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7461B e/02.19 replaces 7461B e/08.17