

RTV Silicones

General Use (1 Part RTV)

Economical, general-purpose silicones for all industries.

Temperature range of -60°C to 205°C (-76°F to 401°F)

No.	Stock Number	Form	Size	Application	Color	Tack free time (min)	Dielectric str. (V/mil)	Dielectric constant	Elongation	Tensile str. (MPa)	Hardness (Shore A)	Viscosity
102	RTV102-85ML RTV102-300ML	Paste	3 oz tube, 10.5 oz cartridge	High performance assembly. Meets FDA, MIL-A-46106, UL Recognized, UL File No. E-36952, UL 94 HB.	white	20	500	2.8 @ 60 Hz	450%	2.75	30	400 g/min
103	RTV103-85ML RTV103-300ML	Paste	3 oz tube, 10.5 oz cartridge		black							
108	RTV108-85ML RTV108-300ML	Paste	3 oz tube, 10.5 oz cartridge		trans-lucent							
112	RTV112-85ML RTV112-300ML	Flowable	3 oz tube, 10.5 oz cartridge	High performance assembly. Meets FDA, MIL-A-46106, group 1, type 2, UL File No. E-36952.	white	20	400	2.8 @ 60 Hz	325%	2.20	25	20,000 cps
118	RTV118-85ML RTV118-300ML	Flowable	3 oz tube, 10.5 oz cartridge		trans-lucent							
6708	RTV6708-85ML RTV6708-300ML	Paste	3 oz tube, 10.5 oz cartridge	Economical. Use for general purposes. UL HB recognition.	trans-lucent	25	410	2.9 @ 100 Hz	450%	1.57	18	175 g/min

Non-Corrosive (1 Part)

Electronics. Temperature range of -60°C to 205°C (-76°F to 401°F)

No.	Stock Number	Form	Size	Application	Color	Tack free time (min)	Dielectric str. (V/mil)	Dielectric constant	Elongation	Tensile str. (MPa)	Hardness (Shore A)	Viscosity
160	RTV160-300ML	Pourable	10.5 oz cartridge	For thin section PCB coating. UL HB Recognition.	white	240	500	2.8 @ 60 Hz	230%	1.86	25	38,000 cps
162	RTV162-85ML RTV162-300ML	Paste	3 oz tube, 10.5 oz cartridge	Bonding capacitors, resistors and integrated circuits to PCBs, sealing exposed wires, faying surfaces, and connectors. Meets MIL-A-46146, group 1, type 1, UL File no. E-36952.	white	240	450	2.8 @ 60 Hz	400%	3.73	35	350 g/min
167	RTV167-85ML RTV167-300ML	Paste	3 oz tube, 10.5 oz cartridge	Mechanical or electrical bonding and insulating applications. Meets MIL-A-46146, group 1, type 1, UL File no. E-36952.	light gray	240	500	2.8 @ 60 Hz	600%	5.49	37	180 g/min
397	TSE397C-100G, TSE397C-333ML	Semi-flowable	3.5 oz tube, 12 oz cartridge	Electronic sealing and coating, applications requiring fast tack free time and aggressive adhesion. Meets MIL-A-46146B corrosion test only.	trans-lucent	10	560	2.9 @ 60 Hz	300%	1.1	20	50,000 cps
399	TSE399C-100G, TSE399C-333ML	Flowable	3.5 oz tube, 12 oz cartridge		trans-lucent	10	500	2.9 @ 60 Hz	140%	1.3	30	2,500 cps
5818	RTV5818-300ML	Paste	10.5 oz cartridge	Fast cure. For assembly applications requiring high productivity. UL Recognized. Primerless adhesion.	trans-lucent	15	426	2.8 @ 100 Hz	500%	1.86	21	360 g/min
1035	1035-85ML	Paste	3 oz tube	Weather proofing where power cords enter motors; as a gasket for leak resistant sealing; bonding of electronic components onto circuit boards; insulating. Non-corrosive, low odor, primerless. Meets MIL-A-46146, group 1, type 1.	trans-lucent	15	426	2.8 @ 100 Hz	500%	1.86	21	360 g/min

Special Application (1 Part)

Automotive, Marine, Electrical, Electronics, Construction

No.	Stock Number	Form	Size	Application	Color	Tack free time (min)	Dielectric str. (V/mil)	Dielectric constant	Elongation	Tensile str. (MPa)	Hardness (Shore A)	Viscosity
106	RTV106-85ML RTV106-300ML	Paste	3 oz tube, 10.5 oz cartridge	High temperature (260°C) encapsulating and sealing. Meets FDA 21CFR 177.2600, MIL-A-46106. UL Recognized, UL File No. E-36952, UL 95 HB.	red	20	500	2.8 @ 60 Hz	400%	2.55	30	400 g/min
116	RTV116-300ML	Flowable	10.5 oz cart.	For applications up to 260°C. Meets MIL-A-47040.	red	30	500	2.8 @ 60 Hz	350%	2.45	46	25,000 cps
133	RTV133-300ML	Paste	10.5 oz cartridge	Sealing firewalls. Use as a flame retardant coating. Sealing switching devices, motors and high voltage transformers. UL V-1 and V-0 recognition.	black	60	500	2.8 @ 100 Hz	250%	4.51	46	650 g/min
157	RTV157-85ML	Paste	3 oz tube	High strength adhesive gasketing, maintenance and electrical insulation.	gray	45	525	2.9 @ 60 Hz	825%	6.21	28	155 g/min
159	RTV159-85ML	Paste	3 oz tube	Sealing applications requiring extremely high bond strength and high temp. (260°C) resistance.	red	45	400	2.8 @ 60 Hz	350%	7.07	20	175 g/min
1000 NS	1000N/S	Paste	10.5 oz cartridge	3M Fire Barrier. Seals firewalls, conduits, pipes. ASTM E814 Through-Penetration Fire Test; ASTM E1966 Construction Joint Fire Test; ASTM C920, Type S, Grade NS, Class 25, Use NT, M, G, A, O; CAN/CGSB 9.13-M87, Class MCG-2-25-A-L; UL Classified.	gray	10	479	-	600%	-	25	Thixotropic

RTV Silicones : 2 Part / Special Application

Potting and Encapsulating Compounds

General Use (2-Part)

Aerospace, Automotive, Electrical, Electronics, Marine.

Temperature range of -60°C to 205°C (-76°F to 401°F).

No.	Stock Number	Form	Size	Application	Color	Mix Ratio (By weight)	Viscosity (cps)	Hardness (Shore A)	Tensile str. (MPa)	Elongation	Dielectric str. (V/mil)	Dielectric constant	Work life (hours) @ 25°C (77°F)	Cure Time @ 25°C (77°F)
11	RTV11-1P, RTV11-1G	Flowable	1 pint, 1 gallon	Medical molds/instruments, high voltage power supply potting, general electrical potting; primer SS4155 required. Meets FDA requirements.	white	100:0.5	11,000	41	2.06	160%	515	3.3 @ 1 kHz	1.5	24 hours
12	RTV12A-1G	Flowable	1 gallon	Room temp. cure, primerless adhesion. Requires curing agent RTV12C-1P.	trans- lucent	20:1	1,500	18	-	200%	400	3.0 @ 1 kHz	1.6	24 hours
21	RTV21-1G	Flowable	1 gallon	Aerospace thermal insulation, thick-section potting, pour-in-place gasketing; primer SS4004P required	pink	100:0.5	26,000	45	2.16	180%	420	3.8 @ 1 kHz	1	24 hours
615	RTV615-1P, RTV615-1G	Flowable	1 pint, 1 gallon	Solar cell potting, optical instruments, applications require visual identification of potted assemblies; primer SS4155 required	opti- cally clear	10:1	4,000	44	6.37	160%	500	2.89 @ 1 kHz	4	7 days (4 h @ 65°C / 149°F)
630	RTV630-1P	Self- leveling	1 pint	Encapsulation applications requiring high tensile strength; primer SS4155 required.	blue	10:1	150,000	60	5.69	250%	450	3.2 @ 1 kHz	4	7 days (4 h @ 65°C / 149°F)



Potting and Encapsulating Compounds

Extreme High temp (2-Part)

Main Industries: Aerospace, Automotive; Electrical, Electronics, Marine, Communication/Broadcasting.

Temperature range of -54°C to 260°C (-60°F to 500°F)

No.	Stock Number	Form	Size	Application	Color	Mix Ratio	Viscosity (cps)	Hardness (Shore A)	Tensile str. (MPa)	Elongation	Dielectric str. (V/mil)	Dielectric constant	Work life (hours) @ 25°C (77°F)	Cure Time @ 25°C (77°F)
31	RTV31-1P	Flowable	1 pint	Potting surge protectors on telephone poles, potting industrial filters, high temp. electrical potting applications, mechanical protection; primer SS4004P required	red	100:0.5	25,000	54	5.98	170%	430	4.4 @ 1 kHz	2	24 hours
60	RTV60-1P, RTV60-1G	Flowable	1 pint, 1 gallon	Aerospace applications such as potting, encapsulating, coating and cushioning; primer SS4155 required	red	100:0.5	47,000	57	6.86	120%	450	4.0 @ 1 kHz	2	24 hours
88	RTV88-1P, RTV88-1G	Paste	1 pint, 1 gallon	Potting surge protectors, aerospace applications such as sealing, bonding and gasketing on vertical or overhead surfaces; primer SS4179 required	red	100:0.5	880,000	58	5.79	120%	440	4.3 @ 1 kHz	3/4	24 hours
560	RTV560-1G	Flowable	1 gallon	Aerospace applications such as potting, sealing and bonding, where extreme high/low temp. service is required	red	100:0.5	30,000	55	4.71	120%	540	3.9 @ 1 kHz	21/4	7 days (4 h @ 65°C / 149°F)

RTV Silicone Adhesive Sealant-Thermally Conductive

No.	Stock Number	Form	Size	Application	Color	Mix Ratio	Thermal Cond. W/m·K	Mixed Viscosity (cps)	Hardness (Type A)	Tensile Str. (MPa)	Elongation	Dielectric str. (V/mil)	Dielectric constant	Cure Time @ 25°C (77°F)
3331	TSE3331-2QT	Flowable, 2 Part	2 quart	Potting/encapsulation of power supply/transformer assemblies requiring good thermal dissipation. UL94 V-0 recognition. Heat cure only, primerless adhesion.	gray	1:1	0.63	3,500	60	3.24	50%	500	3.3 @ 1 kHz	10 min @ 100°C (212°F) 5 min @ 125°C (256°F)
3941	TSE3941-333ML	Paste, 1 Part	12 oz tube	White, thermally conductive paste adhesive sealant. UL94 V-1 recognition (File E56745). Neutral cure. UL recognized, flame retardant, non-corrosive sealant. Meets MIL-A-46146B corrosion only. Offers fast cure, fast tack free time, and aggressive adhesion.	white	n/a, 1 part	0.83	paste	60	3	100%	560	4.0 @ 60 Hz	24 hours 5 min. tack free
1032	1032-85ML	Paste, 1 Part	3 oz tube	White, thermally conductive paste adhesive sealant. UL94 V-1 recognition (File E56745). Neutral cure. UL recognized, flame retardant, non-corrosive sealant. Meets MIL-A-46146B corrosion only. Offers fast cure, fast tack free time, and aggressive adhesion.	trans-lucent	n/a, 1 part	0.83	paste	60	3	100%	560	4.0 @ 60 Hz	24 hours 5 min. tack free

Primer Guide

1-Part RTV Silicones

One-part RTV silicone products have adhesion promoters in their formulation and consequently have good adhesion to a variety of substrates. For 1-part products, it is generally suggested that testing be done without a primer first and if adhesion is acceptable then no primer is required.

2-Part RTV Silicones

Generally, two-part RTV silicone products do not have adhesion promoters in their formulation and consequently have minimal adhesion to substrates. Two-part products have adhesion that is usually acceptable for potting or encapsulating applications but is not sufficient for many sealing or adhering applications. If better adhesion is required, a primer can be used.

Product Availability

		Specific Gravity	Solids Content	Solvents	Dry Time (min.)	Use with
SS4004P	General purpose, pink in color to help identify areas where primer has been applied. Meets MIL-A-46106B, MIL-A-46146B, MIL-S-23586E.	0.85	15%	Acetone Isopropanol Xylene N-butanol	30	1 & 2 Part Condensation cure
SS4044P	General purpose, clear, can be used in food contact applications where FDA regulations apply. Meets MIL-A-46106B, MIL-A-46146A, MIL-A-46146B, MIL-S-23586E.	0.85	15%	Acetone Isopropanol Xylene N-butanol	30	1 & 2 Part Condensation cure
SS4120	Clear, most suitable when optical clarity is required, can be used in food contact applications where FDA regulations apply. Meets MIL-A-46106B, MIL-A-46146B.	0.82	3%	Ethanol Methanol	30	1 & 2 Part Addition
SS4155	General purpose, blue, forms chalky white haze when dry	0.85	10%	Mineral Spirits	30	All
SS4179	Most suitable for plastic substrates, can be used in food contact applications where FDA regulations apply	0.98	6%	Ethyl acetate Toluene Methanol	15	1 Part Condensation