

Silicone Selector

One Component Silicone Sealer/Adhesives - Industrial

One part silicones are produced in pre-filled cartridges and tubes for simple extruding or squeezing, they have excellent adhesive strength and offer primerless adhesion to common building materials.

They have ideal insulation sealing applications for electrical and electronic equipment and are also available in a neutral cure offering a non corrosive seal for soft metals.

Cured one component silicones have an ability to absorb vibration and shocks preventing damage to glass, electronics, electronic equipment and other delicate objects. They also offer excellent weather resistance giving superior resistance to ultraviolet rays, ozone and water, they are resistant to hot and cold temperatures ranging from -60C to 315C

There is a wide range of products available including flame resistant, heat resistant, chemical resistant, oil resistant, FDA and aerospace specified, they have no adverse effects such as exotherms or shrinkage during curing on surrounding equipment parts.

Construction Sealant

GB offer a broad range of highly effective, long-lasting sealant products, available in drums, cartridges and foil packs for the construction sector. High and low modulus products for adhesion to a wide range of substrates including glass, glazed tiles, GRP, enamel, finished or unfinished wood, metals, plastics and concretes.

Applications include glass and polycarbonate glazing, curtain walls, cladding, expansion joints ducting, guttering, kitchen and bathroom sealing, aquaria and many more.

We also have a firestop range of one and two part materials for sealing joints and penetrations to control the spread of fire, smoke, toxic gases and water.

Two Component potting/encapsulating and Moulding compounds

These are composed of a base and curing agent. They are cured by adding the prescribed amount of curing agent, mixing and de-airing.

They have excellent electrical properties, resistance to heat and cold (-115C to 260C), Shock resistance, weather resistant and chemical and oil resistance.

Two part silicones offers uniformed deep curing and is non-corrosive and offers an adjustment of curing times by changing the catalyst type and amounts of by heating.

Two component moulding silicone offers various flexibilities and strengths for small and large parts. They also have very good release properties.

Two part adhesives, encapsulants and gels offer innovative solutions to the challenges of protecting high performance electronic components, wherever they are used.

These compounds are also available as gels and foams and with the use of a primer can offer adhesion to most materials.

Primers

Primers are a adhesion enhancing agent. There are different primers for one and two part silicones and for condensation and addition cure type silicones. They are available in coloured and clear (for optical clarity).

One Component Silicone Sealant

Cure Type

Acetone

Has a superior adhesive strength and curability, gives off a strong odour, heat resistance, will corrode soft metals due to acetic acid by product.

Neutral

Odourless, anti corrosive, rapid curing, hermetic sealing, heat resistance and storage properties, adhesion is not as strong as acetic type silicone.

Two Part Silicones

General Purpose

A variety of products are available for potting, insulating, coating and moulding.

Extreme High Temperature

A variety of products are available for potting, insulating, coating and moulding for High Temperature applications.

Extreme Low Temperature

A variety of products are available for potting, insulating, coating and moulding for Low Temperature applications.

Thermally Conductive

A variety of products are available for potting, insulating, coating and moulding for Thermally conductive applications.

Gels

A range of gels for potting.

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Sealant Selection (typical applications)

Property	FDA	Silpruf	Multisil	Silplus AS	Pensil
Glass glazing	☆	☆	☆	☆	☆
Polycarbonate glazing		☆			☆
Perimeter joints		☆	☆		☆
Expansion joints		☆	☆		☆
Precast concrete		☆	☆		☆
Curtain walls		☆	☆		☆
Cladding panels	☆	☆			☆
Roofing		☆			☆
Mirror fixing		☆			☆
Bath/Kitchen			☆	☆	
Aquarium	☆				
Ducting		☆	☆		
Pipe/ cable entries		☆			☆
Sign assembly		☆	☆		
Fire stop					☆

Acetone Curing Sealant

Product Code	Colour	Appearance	Features	Temperature Range C	Hardness Shore A	Tack Free Time (Min)	Packaging
RTV102	White	Paste	FDA, UL Recognition, Mil-a-46106	-60 to +205	30	20	82ml Tube or 310ml Cartridge
RTV103	Black	Paste	FDA, UL Recognition, Mil-a-46106	-60 to +205	30	20	82ml Tube or 310ml Cartridge
RTV108	Clear	Paste	FDA, UL Recognition, Mil-a-46106	-60 to +205	30	20	82ml Tube or 310ml Cartridge
RTV109	Aluminium	Paste	FDA, UL Recognition, Mil-a-46106	-60 to +205	30	20	82ml Tube or 310ml Cartridge
RTV1473	Black	Paste	FDA, UL Recognition, Mil-a-46106	-60 to +205	30	20	82ml Tube or 310ml Cartridge
RTV112	White	Flowable	FDA, UL Recognition, Mil-a-46106	-60 to +205	25	20	82ml Tube or 310ml Tube
RTV118	Clear	Flowable	FDA, UL Recognition, Mil-a-46106	-60 to +205	25	20	82ml Tube or 310ml Tube
High Temperature							
RTV106	Red	Paste	FDA, UL Recognition, Mil-a-46106	-60 to +260	30	20	82ml Tube, 310ml Tube or 310ml Cartridge
RTV116	Red	Flowable	FDA, UL Recognition, Mil-a-46106	-60 to +260	28	30	310ml Tube

Neutral Curing Silicone

Product Code	Colour	Appearance	Features	Temperature Range C	Hardness Shore A	Tack Free Time (Min)	Packaging
TSE392C	Clear	Semi flowable	Aggressive adhesion	-55 to +200	30	5	100g tubes or 310ml Cartridges
TSE392W	White	Semi flowable	Aggressive adhesion	-55 to +200	30	5	100g tubes or 310ml Cartridges
TSE397C	Clear	Paste	Aggressive adhesion	-55 to +200	20	10	100g tubes or 310ml Cartridges
TSE397W	White	Paste	Aggressive adhesion	-55 to +200	20	10	100g tubes or 310ml Cartridges
TSE399C	Clear	Flowable	Aggressive adhesion	-55 to +200	30	10	100g tubes or 310ml Cartridges
TSE399W	White	Flowable	Aggressive adhesion	-55 to +200	30	10	100g tubes or 310ml Cartridges
RTV160	White	Pourable	PCB Coatings, UL recognition	-60 to +205	25	4hrs	310ml Cartridges
RTV162	White	Paste	Bond capacitors, resistors & integrated circuits to PCB's; Seal exposed wires, fraying surfaces, MIL-A-46146B & UL recognised	-60 to +205	35	4hrs	82ml Tubes or 310ml Cartridges
RTV167	Grey	Paste	High strength for electrical bonding and insulating applications. MIL-A-46146 and UL recognised	-60 to +205	37	4 hrs	82ml Tubes or 310ml Cartridges
RTV133	Black	Paste	Flame retardant coating, high voltage transformers, switching devices and UL recognised	-60 to +205	46	4hrs	310ml Cartridges or 45lb pails
RTV157	Grey	Paste	High strength adhesive gasketing	-60 to +204	28	45	82ml Tubes or 310ml Cartridges
RTV159	Red	Paste	High Strength, high temperature	-60 to +260	20	45	82ml Tubes or 310ml Cartridges

One Part Cons

Product Code	Description	Appearance	Features	Temperature Range C	Tack free Time (Min)	Packaging	Colours Available
SCS0200-310C	Silplus AS	Paste	Acetoxy, Mildew resistant	-50 to +150	30	310ml Cartridge	White, Clear, Black, Grey, Aluminium, Brown
SCS5701-310C	Multisil	Paste	Neutral, Mildew resistant	-40 to +150	25	310ml Cartridge	White, Clear, Black, Grey, Brown
SCS2000-310C	Silpruf	Paste	Neutral, Slow cure	-50 to +100	6-9 (hrs)	310ml Cartridge	White, Clear, Black, Grey, Brown
SCS2500-310C	Silglaze N	Paste	Neutral, Fast cure	-40 to +150	25	310ml Cartridge	White, Clear, Black, Grey
SCS1200-310C	FDA	Paste	Acetoxy, FDA, Aquarium	-50 to +200	30	310ml Cartridge	White, Clear, Black, Grey
SCS0300-310C	Pensil 300	Paste	Neutral, Fire stop, slow cure	-50 to +100	6-9 (hrs)	310ml Cartridge	White, Clear, Black, Grey

Firestop

Product Code	Description	Appearance	Features	Temperature Range C	Work Life	Packaging	Colour
SCS0300-310C	Pensil 300	Paste	Neutral, Fire stop, slow cure	-50 to +100	6-9 (hrs)	310ml Cartridge	White, Clear, Black, Grey
Pensil 200	Pensil 200	Flowable	Fast curing foam to fill gaps where protection against fire, smoke and gases is required	10C to 32C	100-300 seconds	5Kg Pails 10kg Pails 20Kg Pails 50Kg Pails	Dark Grey/Black

General Purpose Two part Silicone Compound

Product Code	Colour	Appearance	Features	Temperature Range C	Hardness Shore A	Cure time (at 25C)	Cure time (at 100C)	Packaging
RTV11	White	Flowable	Medical, Electrical, FDA approved	-60 to +204	41	24 hours	-	5kg tub or Drum
RTV12	Clear	Flowable	Primerless adhesion	-60 to +204	18	24 hours	-	40lb pail or Drum
RTV615	Clear	Flowable	Optically clear	-60 to +204	44	7 days	1 hour	44lb pail or Drum
RTV627	Dark Grey	Flowable	UL94V-0, Transformers, Electrical	-60 to +204	62	2 days	1 hour	5kg tub or Drum
RTV630	Blue	Flowable	High tensile strength	-60 to +204	60	7 days	1 hour	44lb pail or Drum
RTV664	Blue	Flowable	High tear strength, FDA approved	-60 to +200	62	24 hours	1 hour	44lb pail or Drum
RTV668	Green	Flowable	Sulfur resistant, No shrinkage	-60 to +200	62	24 hours	1 hour	44lb pail or Drum

High Temperature Two part Silicone Compound

Product Code	Colour	Appearance	Features	Temperature Range C	Hardness Shore A	Cure time (at 25C)	Cure time (at 100C)	Packaging
RTV31	Red	Pourable	Potting, Electrical	-54 to +260	54	24 hours	-	1lb, 12lb and 40lb pails
RTV60	Red	Pourable	Potting, coating, Aerospace	-54 to +260	57	24 hours	-	1lb, 12lb and 40lb pails
RTV88	Red	Spreadable Paste	Overhead bonding, gasketing	-54 to +260	58	24 hours	-	1lb, 12lb and 40lb pails
RTV560	Red	Flowable	High and Low temp, Aerospace	-115 to +260	55	24 hours	-	1lb, 12lb pails
RTV566	Red	Flowable	Low outgassing, Aerospace	-115 to +260	61	24 hours	-	12lb pail

Low Temperature Two part Silicone Compound

Product Code	Colour	Appearance	Features	Temperature Range C	Hardness Shore A	Cure time (at 25C)	Cure time (at 100C)	Packaging
RTV511	White	Pourable	Potting, Electrical	-115 to +204	42	24 hours	-	12lb pails
RTV560	Red	Pourable	High and Low Temp, Aerospace	-115 to +260	57	24 hours	-	1lb, 12lb and pails
RTV577	White	Spreadable Paste	Aeropace, Over head surfaces	-115 to +204	48	24 hours	-	1lb, 12lb and pails

Thermally Conductive Two part Silicone Compound

Product Code	Colour	Appearance	Features	Temperature Range C	Hardness Shore A	Cure time (at 25C)	Cure time (at 100C)	Packaging
TSE3331	Dark Grey	Pourable	Potting/ encapsulation of power supply/ transformer assemblies	-60 to +204	60	-	10 minutes	12lb pails

Two part Silicone Gel

Product Code	Colour	Appearance	Features	Temperature Range C	Hardness Shore A	Cure time (at 25C)	Cure time (at 100C)	Packaging
RTV6156	Clear	Pourable	Low temperature	-115 to +204	4	18 hours	1 hour	80lb pail
RTV6166	Clear	Pourable	General purpose	-50 to +204	6	24 hours	1 hour	80lb pail
RTV6186	Clear	Pourable	Tough Gel, Slow cure	-50 to +204	6	-	1 hour	80lb pail
RTV6196	Clear	Pourable	Fast cure	-50 to +204	6	<2 hours	10 minutes	80lb pail

Primers

Product Code	Colour	Appearance	Features	Solvents	Average Drying Time	Packaging
SS4004	Pink	Flowable	Coloured, Metal	Acetone Isopropanol Toluene	1 hour	500ml Bottle
SS4120	Clear	Flowable	Clear, FDA	Ethanol Methanol	1 hour	500ml Bottle
SS4155	Blue	Flowable	Coloured, for two part compounds	Mineral Spirits	1 hour	500ml + 5ltr Tin
SS4179	Clear	Flowable	Clear, for one part sealants	Ethyl Acetate	1 hour	500ml Bottle