

MASTER BOND MASTERSIL APPLICATION SELECTOR GUIDE

Selected Silicone Adhesives, Sealants & Potting Compounds

Partial Listing Only — Other Grades Available

One Component Series —

MasterSil Product Grade	Color	Viscosity cps	Tensile Strength psi, 75 °F	Elongation %, 75 °F	Hardness Shore A	Volume Resistivity ohm/cm	Set-Up Time Minutes, RT	Cure Schedule Temp/Time, °F	Service Temp Range, °F	Applications
410	translucent & selected colors	paste	400	500	30	1x10 ¹⁵	10-15	12-24 hrs @ RT	-75 to +400	General purpose type, non-flowable adhesive/sealant. Excellent electrical and adhesive properties. Good weatherability and water resistance.*
415	transparent	paste	325	375	30	1x10 ¹⁴	8-12	12-24 hrs @ RT	-185 to +400	Fast setting, optically clear system for bonding and sealing. Superb light transmission. Superior flexibility at lower temperatures.
700	black	paste	300	400	25	1x10 ¹⁵	20-30	24-48 hrs @ RT	-75 to +400	General purpose system for bonding & sealing. Often used for formed-in-place gasketing applications.*
701	translucent	paste	300	400	20	1x10 ¹⁵	20-25	24-48 hrs @ RT	-75 to +400	Superior, high performance system for bonding & sealing. Excellent water resistance & weatherability.*
702	translucent, gray or black	paste	750	620	33	1x10 ¹⁵	15-20	24-48 hrs @ RT	-75 to +450	Non-corrosive. For general purpose bonding, sealing and formed-in-place gasketing. Excellent electrical properties. Superior heat resistance.**
705	translucent white or black	self leveling paste	220	225	20	1x10 ¹⁵	20-25	24-48 hrs @ RT	-75 to +400	Non-corrosive, self leveling paste for bonding, sealing and protective coatings. Food grade certifiable. Excellent dielectrics over a wide temperature range.**
705TC	white	paste	210	70	50	1x10 ¹⁴	5-8	24-36 hrs @ RT	-75 to +400	Thermally conductive (15 BTU•in/ft ² •hr•°F at 75°F), electrically isolating adhesive & sealant. Bonds well to a wide variety of substrates.
711	translucent	paste	400	400	30	1x10 ¹⁵	3-5	8-12 hrs @ RT	-75 to +400	Exceptionally fast setting, high performance system. Non-corrosive. Widely used in manufacturing & repair.
713	translucent	3,000	125	210	25	1x10 ¹⁵	6-8	12-18 hrs @ RT	-75 to +400	Very low viscosity, non-corrosive and fast curing. For coating and encapsulating circuit assemblies and electronic components. Excellent shock resistance.
717FS	red	paste	760	240	40	2x10 ¹³	30-40	36-72 hrs @ RT	-75 to +500	High strength adhesive/sealant featuring extraordinary resistance to oils, fuels and solvents. Widely used for sealing military aircraft fuel tanks.
773	transparent	60-70	50	40-45	30	1x10 ¹⁴	5	2-4 hrs @ RT	-75 to +400	Ultra low viscosity conformal coating material. Easily applied by spraying, brushing, dipping or flow coating. Superb humidity and heat resistance.
800	black	45,000	250	260	26	2x10 ¹³	20-25	24-48 hrs @ RT	-75 to +600	Exceptionally heat resistant system. Serviceable up to 600°F. Non-corrosive. Flowable. Used to encapsulate & protect electronics and heating elements.
801	black	paste	360	300	40	1x10 ¹⁴	15-20	24-48 hrs @ RT	-75 to +600	Paste version of MasterSil 800. Can be used for vertical applications. Widely used for aerospace sealing and gasketing. Also non-corrosive.
803	translucent	paste	650	300	50	1x10 ¹⁵	30-40	72-96 hrs @ RT	-180 to +500	Unique, non-corrosive system featuring enhanced low and high temperature serviceability.

* MIL A 46106, ** MIL A 46146

Available in tubes & cartridges, pint, quart, gallon & 5 gallon pails & 55 gallon drums

Two Component Series —

MasterSil Product Grade	Color	Mix Ratio parts by weight	Mixed Viscosity cps	Tensile Strength psi, 75 °F	Elongation %, 75 °F	Hardness Shore A	Volume Resistivity ohm/cm	Set-Up Time Hours, RT	Cure Schedule Temp/Time, °F	Service Temp Range, °F	Applications
150	"A" white "B" blue	100/10	12,000-15,000	360	225	40	5x10 ¹³	3 hrs	24-48 @ RT ambient temperature cure only	-75 to +400	Non-corrosive, condensation type cure. For electronic potting & encapsulation. High flexibility & low shrinkage upon cure.
151	"A" transparent "B" transparent	100/10	1,200-1,500	880	120	45	1x10 ¹⁵	4-5 hrs	24-48 hrs @ RT 2-3 hrs @ 200 °F	-75 to +400	Addition type curing system. Optically clear. Low outgassing. Offers ambient or elevated temperature cures. Also for potting and encapsulation.
153	"A" translucent "B" translucent	100/100	2,750	450	500	25	1x10 ¹⁴	not applicable	1 hr @ 250 °F	-75 to +400	Self priming, high strength adhesive for bonding glass, metals and many plastics. Extra-long working life (greater than 6 hrs). Requires heat cure.
712	"A" transparent "B" transparent	100/100	1,000	not applicable	not applicable	not applicable	1x10 ¹⁵	4-6 hrs	24-48 hrs @ RT 1-2 hrs @ 200 °F	-75 to +400	Transparent gel. Addition type cure with 4 hour working life. Low outgassing. Ideal for encapsulation. Self-healing.

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One Component Specialty Products —

MasterSil Product Grade	Color	Viscosity cps	Tensile Strength psi, 75 °F	Elongation %, 75 °F	Hardness Shore A	Volume Resistivity ohm/cm	Set-Up Time Minutes, RT	Cure Schedule Temp/Time, °F	Service Temp Range, °F	Applications
718	transparent	90-100	not applicable	not applicable	not applicable	not applicable	not applicable	not applicable	not applicable	Silicone primer. Contains 7% solids content. Enhances adhesion to metals, rubbers and plastics.
726	opaque white	paste	not applicable	not applicable	not applicable	1x10 ¹⁰	not applicable	not applicable	-40 to +400	Thermally conductive grease (conductivity of 5-6 BTU·in/ft ² ·hr·°F at 75 °F). Meets MIL C471 13A.
771	light amber clear	100,000	not applicable	not applicable	not applicable	2.1x10 ¹⁵	not applicable	not applicable	-75 to +400	Pressure sensitive adhesive, 60% solids content. Excellent high & low temperature resistance. Will adhere to many substrates including Teflon. Can add glass fibers or mica to make fire resistant wire coatings.
UV71DC	translucent	6,000	not applicable	not applicable	not applicable	1x10 ¹⁵	not applicable	5-30 sec	-75 to +400	UV curable, solvent free, rapid curing conformal coating/encapsulant

Master Bond Inc.

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