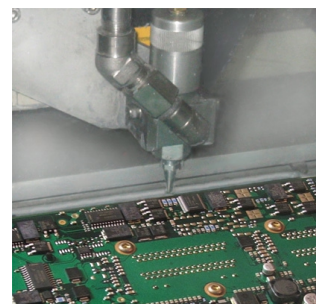


RTV (Room Temperature Vulcanizing) Adhesives and Sealants

Silicone rubber based RTV sealants / adhesives from United Adhesives Inc. provide strong bonding to most common plastics and metals with excellent thermal stress release and water resistance. Epoxy based sealants / adhesives provide strong structural bonding to most common plastics and metals with strong oil and chemical resistance.

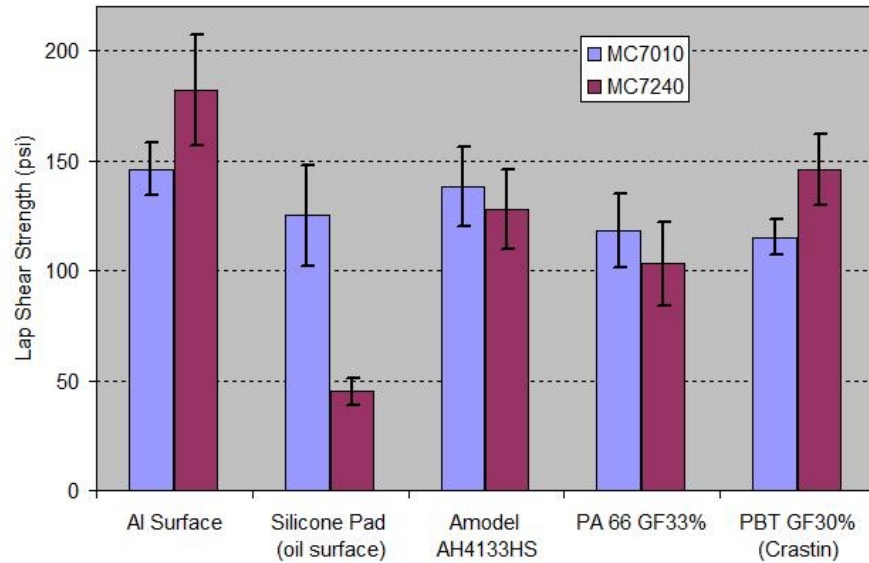
They are used to bond and seal electronic devices, components, equipment, connectors, cover plates, housings, etc; make formed-in-place gaskets; assemble and repair electronic devices. They can also be applied as general-purpose sealants for other applications.



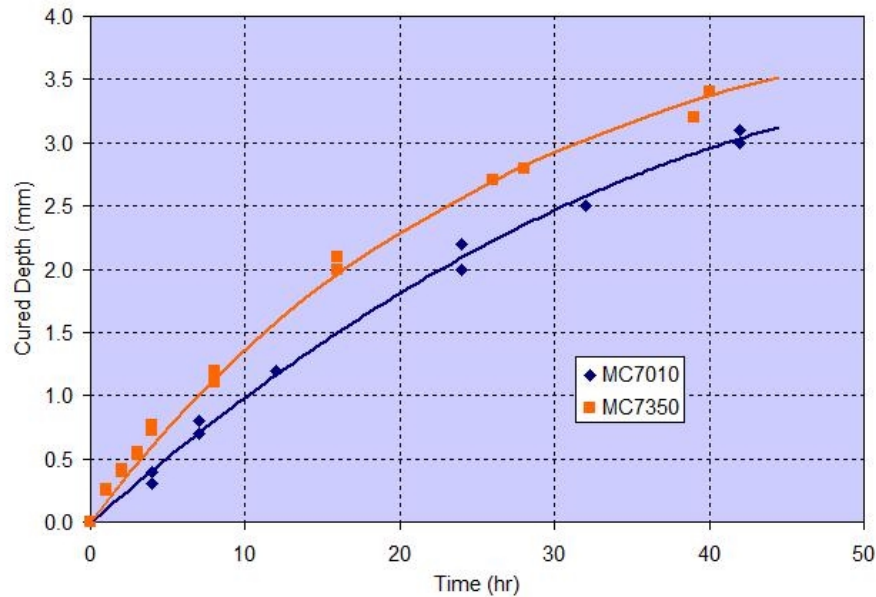
Name	MC7010	MC7130	MC7240	MC7350	BondSeal BS8440	EP1611
Chemical Feature	Amine Cure Silicone	Oxime Cure Silicone	Alkoxy Cure Silicone	Acyloxy Cure Silicone	Pt Cure Silicone	Flexible Epoxy
Features / Advantages	1-part moisture Cure. Long elongation. Non-Sag. Stress free. Strong bond to PBT, ABS, Nylon plastics.	Non-corrosive, 1-part moisture cure. Strong bond to aluminum and most plastics. Stress compliant.	Non-corrosive 1-part moisture cure. Strong bond to aluminum & most plastics. Stress compliant.	1-part fast moisture cure. Strong bonding to PBT, ABS, Nylon plastics. Stress compliant.	Addition heat fast cure. Room temp curable. Non-Corrosive. Strong bond to most plastics. Stress compliant.	Flexible epoxy formulation. Two part for fast cure. Room temperature curable.
Typical Application	Bond & seal electronic devices, housings, covers, etc. extreme thermal stress release; formed-in-place gaskets.	Bond & seal electronic devices that exposes to high temperature & humidity; make formed-in-place gaskets.	Bond & seal electronic devices, connectors, cover plates etc. Making formed-in-place gaskets. General purpose sealant	Assemble & repair electronic devices. Bond components exposed to fuels, oils; make formed-in-place gaskets. Seal joints on lines.	Bond & seal electronic devices. Good oil resistance. Seal lead, housing. Attaching baseplate; Gasketing; Connector seal.	For low stress bonding & flexible seal. Bond to PBT, PPS, Nylon, PC, Phenolics and other difficult materials.
Appearance	Grey	Grey	Grey	White / Grey	White / Grey	Off-White
Rheology	Paste	Paste	Paste	Paste	Dispensable	Flowable, Dispensable
Part / Component	One	One	One	One	Two (1:1)	Two
Viscosity @25C (cps)	N/A	N/A	N/A	N/A	40,000	10,000
Extrusion Rate (3mm nozzle, 0.21N/M, 23C)	240 gram/min	2 to 5 g / 10 sec	110 gram/min	260 gram/min	N/A	N/A
Skin Over Time (min, 24C50%RH)	18	20	30	12	N/A	N/A
Tack Free Time (min, 24C50%RH)	45	45	60	25	N/A	N/A
Cure Rate	1.8mm / 24 hrs	1.5mm / 24 hrs	1.5mm / 24 hrs	~2mm / 24 hrs	12 hr @ rmT 30 min @ 125C	rmT 12 hrs 125C 30 min
Shelf Life (days)	9 month @ 23C	9 month @ 23C	9 month @ 23C	9 month @ 23C	12 month @ 23C	12 month @ 24C
Thermal Stability	-55C to 180C	-55C to 180C	-55C to 180C	-55C to 180C	-55C to 200C	150
Hardness (Shore A)	18	43	37	40	51	Shore A = 60
Elongation	600%	300%	450%	320%	240%	150%
Tensile Strength	1.3 Mpa	2.5 Mpa	2.5 Mpa	2.2 Mpa	5.8 Mpa	8 Mpa
Adhesion (Al/Al Lap Shear, psi)	140 psi	150 psi	130 psi	240 psi	> 600 psi	>400 psi

► **Properties of RTV Adhesives and Sealants**

Adhesion of MC7010 and MC7240 Lap Shear Strength



Cure Rate of MC7010 and MC7350 at 25C 55%RH



Typical adhesion to different substrates

Adhesion to Substrates	MC7010	MC7130	MC7240	MC7350	Bondseal 8440	EP1611
Aluminum	Excellent	Excellent	Excellent	Excellent	Excellent	Good
Copper	Excellent	Excellent	Excellent	Excellent	Excellent	Good
PBT	Excellent	Fair	Fair	Excellent	Good	Excellent
Nylon	Excellent	Good	Excellent	Excellent	Good	Excellent
PPS	Good	Fair	Fair	Good	Fair	Excellent
Polycarbonate	Prohibit	Fair	Excellent	Prohibit	Excellent	Excellent
Epoxy Resin	Excellent	Excellent	Excellent	Excellent	Fair	Excellent
Silicone Rubber	Good	Fair	Fair	Good	Fair	Fair