

Silicone Industrial Sealant



One Part RTV Selector Guide



Features

Applications



Industrial Grade (Acetic cure) Adhesive Sealant: RTV 100 Series

RTV 102 White RTV 103 Black RTV 108 Clear RTV 109 Aluminium

- Non slumping paste
- Minus 60 °C to plus 205 °C
- Excellent ozone, UV resist.
- FDA, USDA, NSF approved
- Meet MIL-A-46106 Gr.1 Type I
- UL recognised
- 90 gm Tube, 315 gm Cartridge, 20 Kg pail
- Sealing windows in oven doors, flues on gas appliances
- Formed in place gasket for gear boxes, pumps
- Bonding & sealing appliance parts
- Steel and stainless steel surfaces bonding
- Glass & ceramic surfaces



Industrial Grade (Neutral Cure) Adhesive Sealant: RTV 120 series

RTV 122 White RTV 123 Black RTV 128 Clear

- Low odour
- Primer less adhesion to many metals (non corrosive to aluminium & steel)
- Minus 60 °C to plus 205 °C
- UL recognised
- 315 gm cartridge & 18.16 Kg pail
- Joints in duct work, cement & metal pipes
- Sealing galvanised sheet, pipes
- Roof & gutter
- Formed in place gaskets
- Concrete & masonry surfaces



Industrial Grade (Neutral Cure) Adhesive Sealant: RTV 6700 series

RTV 6702 White RTV 6708 Clear

- Non slumping low odour paste
- Minus 60 °C to plus 205 °C
- Cures soft with excellent UV, chemical & weather resistance
- Meet MIL-A-46106 (for non corrosive specs) and AMS 3374
- 315 gm cartridge
- Bonding and sealing
- Joining metals and plastics of horizontal, vertical & overhead surfaces
- General purpose electrical applications
- Formed in place gaskets
- Concrete & masonry surfaces



High Temperature Industrial (Acetic cure) Adhesive Sealant: RTV 106

- Non slumping red paste
- Minus 60 °C to plus 260 °C (short term to 315C)
- Excellent ozone, UV resist
- FDA, USDA, NSF approved
- Meet MIL-A-46106 type I
- UL recognised
- 90 gm tube, 321 gm cartridge, 20 Kg pail
- Sealing & bonding heating elements in appliances
- Aerospace gasketing
- High temperature flanged pipe joints
- Cracks & seams in high temperature ovens

*For flowable version use RTV 116 (350gm tube)



Fast Cure Non Corrosive (Neutral cure) Adhesive Sealant: RTV 5240 Series

RTV 5242 White RTV 5243 Black RTV 5249 Grey

- Non Corrosive to brass or copper
- 4 times faster cure (6hrs cure time) – Fast green high strength
- Superior hydrolytic stability (Adhesion 20 weeks @ 60 °C in water)
- Low odour & UL recognised
- 447 gm cartridge
- Electronic parts in aerospace, automotive, appliance & other industries
- Suitable for moist environments
- Electronic, electrical IC, semi conductors & copper connections



Features

Applications

Solvent Resistant Industrial (Acetic cure) Adhesive Sealant: FRV 1106

- Fluro silicone non slumping red paste
- Resist swelling by solvents, fuels, oils and chemicals
- Minus 60 °C & short term to 260 °C
- Formed in place gaskets with even or irregular shapes
- 227 gm SEMCO cartridge
- Sealing for pipe joints in chemical plants & formed in place gaskets
- Sealing seams on liquid tanks
- Bonding sensing devices in gas tanks
- Sealing aerospace & automotive fuel lines



Oil Resistant Industrial (Neutral Cure) Adhesive Sealant: RTV 1473

- Good oil resistance
- Non slumping black paste
- Suit short term up to 260 °C with excellent tensile strength
- Resist swelling in oils & coolants
- Wet bead (adhesion & sealing) & cured bead (sealing) possible
- 336 gm cartridge
- Sealing oil circulation systems, machine housings, oil troughs and barriers
- Making formed in place gasket (positive seal) for gear boxes, engines and pumps



Plastic Compatible Industrial (Neutral Cure) Adhesive Sealant: RTV 5220 series RTV5222 White RT V5223 Black RTV 5229 Grey

- Primer-less adhesion to most metals, painted surfaces and plastics including polycarbonate, acrylic, PVC & polystyrene
- Low modulus/ high elongation sealant, UL recognised
- Minus 60 °C to plus 205 °C
- 447 gm cartridge, 27.2 Kg pails
- Plastic adhesion for component assembly
- Sealing of refrigeration
- A/C systems, boats, automotive components, toys, hand tools
- Formed in place gaskets



Self levelling Industrial (Acetic Cure) Adhesive Sealant: RTV 110 series RTV 112 White RTV 118 Clear

- Self levelling
- Minus 60 °C to plus 205 °C
- FDA, USDA, NSF approved
- Meet MIL-A-46106 Gr.1 Type II
- UL recognised
- 90 gm tube, 350 gm tube & 18.16 Kg Pail
- Protective coating of mechanical devices & thin section potting
- Formed in place gasket for compressors, pumps, gear boxes
- Ideal for carrying in a tool box

*For high temperature flowable version use RTV116 (350 gm tube)



Electrical & Electronic Non Corrosive (Neutral Cure) Adhesive Sealant* TSE 392W White TSE 392 C Clear

- Paste consistency with outstanding electrical properties
- Minus 55 °C to 200 °C
- Fast tack free
- Meet Mil-A-46146B corrosion resistant
- 100 gm Tube & 350 gm cartridge
- Electrical & electronic soft dielectric silicone rubber with aggressive adhesion
- Suits complex assemblies needing mechanical & thermal shock protection
- UL recognised

*For flowable version use TSE 397 series

Typical Properties# of GE Advanced Materials-Silicones Industrial RTV Silicone Adhesive Sealants

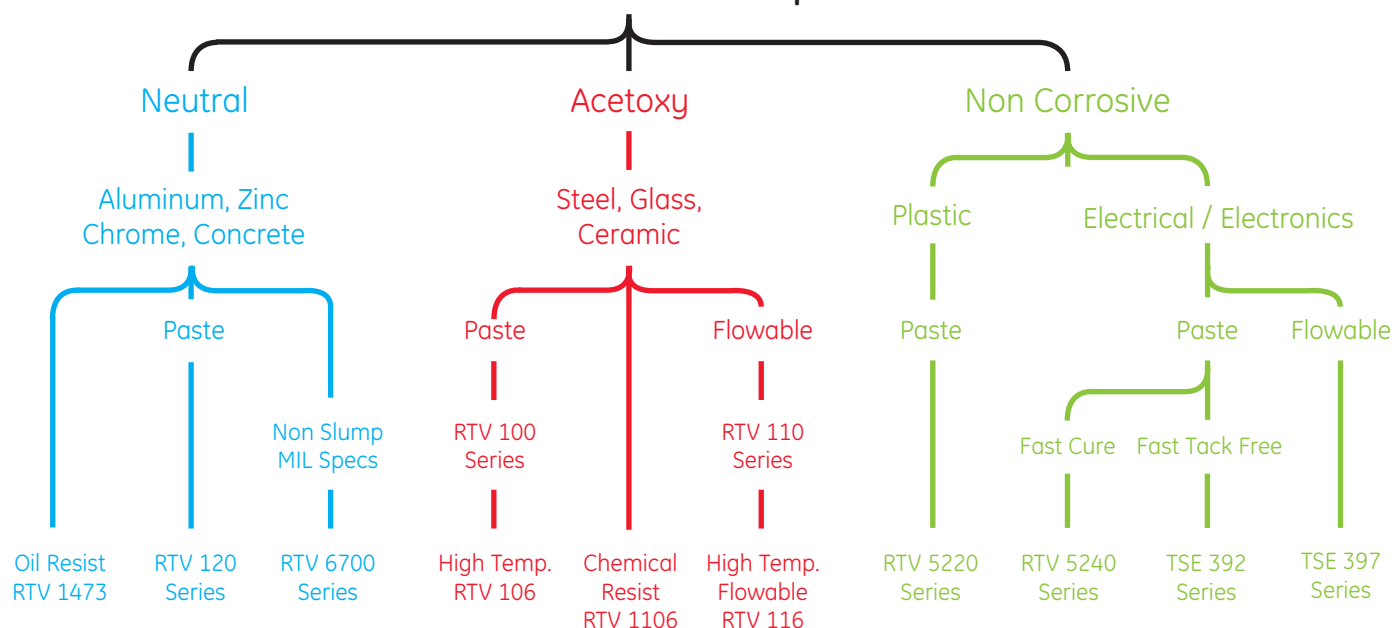
RTV	100 Series	106	110 Series	120 Series	392 Series	1106	1473	5220 Series	5240 Series	6700 Series
Product Colour	Clear White Black Aluminium	Red	Clear White	Clear Black White	Clear White	Red	Black	White Black Grey	White Black Grey	Clear White
Temp Range °C	-60 to 205	-60 to 260	-60 to 205	-60 to 205	-55 to 200	-60 to 205	-60 to 204	-60 to 205	-60 to 205	-60 to 205
Extrusion Rate gm/min	400	400	Flowable	500	Paste	88	380	185	300	175
Tack Free Time	20 min	20 min	20 min	20 min	5 min	20 min	25 min	180 min	45 min	25 min
Cure Time 3mm thick	24 hrs	24 hrs	24 hrs	24 hrs	24 hrs	24 hrs	24 hrs	24 hrs	6 hrs	24 hrs
Specific Gravity	1.05	1.07	1.05	1.04	1.04	1.58	1.06	1.4	1.5	1.04
Pack Sizes	83 ml 300 ml 19 Lt pail	83 ml 300 ml 18.7 Lt pail	83 ml 304 ml 17.3 Lt pail	300 ml 17.5 Lt pail	96 ml 333 ml	144 ml	300 ml	300 ml 19.4 Lt pail	300 ml	300 ml
Usable Life months*	24	24	24	24	16	18	24	18	18	12
Tensile Strength MPa	2.8	2.6	2.3	1.72	1.6	3.34	3.15	2.6	2.5	1.58
Hardness Shore A**	30	30	25	30	26	42	30	26	40	18
Elongation %	450	400	325	350	430	230	500	750	425	450

*From date of manufacture

**As cured after 7 days at 25C and 50% Relative Humidity

#Typical property data values should not be used as specification

One Part Industrial RTV Silicone Sealant up to 6 mm thickness



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