

One-Part Condensation Cure: Acetoxy Cure Chemistry⁺

	HIGH PERFORMANCE						SPECIALTY		GENERAL PURPOSE	
			HIGH STRENGTH							
	RTV100 Series	RTV106	RTV112 RTV118	RTV116	RTV157	RTV159	FRV1106	RTV1473	IS800 Series ⁽¹⁾	IS806
Features	Paste adhesive with FDA, USDA, NSF. UL listed. MIL-A-46106B.	High temperature, paste adhesive compliant with FDA, USDA and NSF. UL listed. MIL-A-46106B.	Flowable adhesive compliant with FDA, USDA and NSF. UL listed. MIL-A-46106B.	High temperature, flowable adhesive compliant with FDA, USDA and NSF. UL listed. MIL-A-46106B.	High strength, paste adhesive.	High temperature, high strength, paste adhesive.	Fluorosilicone, paste adhesive. Excellent resistance to fuel, oil, moisture, UV, ozone and chemicals.	Oil-resistant, heavy-bodied, paste adhesive.	Paste adhesive with FDA, USDA, and NSF compliance. UL94 HB recognition.	High temperature, paste adhesive with FDA, USDA, and NSF compliance. UL94 HB recognition.
Typical Applications (include but not limited to)	Electrical insulation; Formed-in-place gaskets; Assembly applications; Sealing and bonding.	Sealing heating elements; Gasketing; Electrical insulation; Sealing and bonding.	Electrical insulation; Thin section potting; Self leveling protective coatings; Assembly applications.	Thin section potting; Self leveling protective coatings; Electrical insulation.	High voltage wire and cables; Valve sealants; Turbines; Fluid metering devices; Gaskets and sealing devices.	High voltage wire and cables; Valve sealants; Turbines; Fluid metering devices; Gaskets and sealing devices.	Formed-in-place gasketing; Sealing seams; Fuel handling systems; Sealing and bonding; Valve manufacturers.	Formed-in-place gasketing; Sealing and bonding.	Sealing and bonding.	Sealing and bonding.
Key Substrate Adhesion	Primerless adhesion to many metals, plastics and glass.	Primerless adhesion to many metals, plastics and glass.	Primerless adhesion to many metals, plastics and glass.	Primerless adhesion to many metals, plastics and glass.	Primerless adhesion to many metals, plastics and glass.	Primerless adhesion to many metals, plastics and glass.	Primerless adhesion to many metals, plastics and glass.	Primerless adhesion to many metals, plastics and glass.	Primerless adhesion to many metals, plastics and glass.	Primerless adhesion to many metals, plastics and glass.
Color (Final Product)	RTV102: White RTV103: Black RTV108: Translucent RTV109: Aluminum	Red	RTV112: White RTV118: Translucent	Red	Gray	Red	Red	Black	IS802: White IS803: Black IS808: Translucent IS800.09: Aluminum	Red
Viscosity (cps)/ Application Rate (g/min)	400 g/min	400 g/min	RTV112: 25,000 cps RTV118: 25,000 cps	25,000 cps	180 g/min	180 g/min	92 g/min	375 g/min	425 g/min	550 g/min
Useful Temperature Range	-60 to 205°C (-75 to 400°F)	-60 to 260°C (-75 to 500°F)	-60 to 205°C (-75 to 400°F)	-60 to 260°C (-75 to 500°F)	-60 to 205°C (-75 to 400°F)	-60 to 260°C (-75 to 500°F)	-60 to 205°C (-75 to 400°F)	-60 to 205°C (-75 to 400°F)	-60 to 205°C (-75 to 400°F)	-60 to 260°C (-75 to 500°F)
Specific Gravity	1.06	1.08	1.05	1.10	1.10	1.11	1.45	1.06	1.04	1.05
Hardness, Shore A Durometer	30	30	25	20	28	28	39	30	23	22
Tensile Strength (psi)	400	375	325	350	975	1025	485	450	300	250
Elongation (%)	450	400	325	350	825	825	200	500	450	425
Dielectric Strength (75 mils, V/mil)	500	500	400	400	525	500	-	-	500	500
Dielectric Constant (60 Hz)	2.80	2.80	2.80	2.80	2.90	2.60	-	-	2.90	2.90
Linear Shrinkage (%)	1.0	1.0	1.0	1.0	1.0	1.0	-	-	-	-
Processing:										
Tack Free Time	20 minutes	20 minutes	20 minutes	30 minutes	45 minutes	45 minutes	20 minutes	25 minutes	30 minutes	30 minutes
Cure Time @ 25°C (77°F)⁺⁺	24 hours	24 hours	24 hours	24 hours	24 hours	24 hours	24 hours	24 hours	24 hours	24 hours

Note: Additional information may be available on the technical datasheet. This chart contains typical property values and actual values or results may vary.

+ These sealants are not for use in delicate electrical and electronic applications in which corrosion of copper, brass and other sensitive metals is undesirable.

++ Cure times are typical values which may be affected by bead size, temperature, relative humidity, and the equipment used. Full property development with standard condensation cure products may take 3 to 7+ days (at 25°C and 50% RH).

(1) IS802 does not currently meet FDA regulation 21CFR177.2600 "Rubber Articles Intended for Repeated Use."