



## US-EC-72

### Conductive Silicone RTV Adhesive for EMI/RFI applications Nickel Graphite Filler

US-EC-72 is an electrically conductive moisture curing silicone 1-part RTV adhesive rubber developed for emi/rfi applications requiring fast development of physical properties. When cured, the elastomer resists weathering, ozone, moisture, UV and high temperatures.

#### Product Features

- Fast Room Temperature cure
- Thixotropic paste
- Non-corrosive
- Temperature range -45°C to +260°C
- Conductive Filler: Nickel Graphite

**Colors:** Dark Gray

#### Typical Applications

- Electrically Conductive
- Thermally Conductive
- EMI-RFI Shielding
- Form in place gaskets

**Service temperature** -45°C to +260°C

#### Properties

**Uncured:** Viscosity, cps: 500,000      Specific Gravity: 2.09      Consistency: thixotropic paste  
Working time, in minutes at Room Temperature: 15  
Tack Free Time, in minutes at Room Temperature: 60  
Application Rate: 90 PSI, in g/minute: >400 (3mm orifice at 0.6 MPa)

#### Cured 72 Hours at Room Temperature:

Durometer, Shore A: 60  
Volume Resistivity; 0.09 Ohms-cm  
Tensile Strength: 300 PSI  
Thermal Conductivity: 2.5 W/m/K

**Method of Application:** Dispense sealant onto part. Mate parts, ensuring not all of the product is squeezed out of flange assembly. Allow to cure.

**Chemical cure system:** Oxime cure system

**Solids:** 98% solids, contains no solvents

**Curing:** Typical utilization involves dispensing in open air and ambient humidity to result in a high strength adhesive rubber. Cure speed can be accelerated with increased humidity to very rapid cures exhibiting surprisingly fast adhesion.

**Adhesion:** Primerless adhesion to most plastics, metals and typical substrates.

**Limitations:** Allow to fully cure before putting assembly into service. Ensure enough product remains between flanges to be effective in an assembly.

**Packaging:** Available in standard 1 & 3 oz squeeze tubes and 10.3 oz. cartridges. Other packaging sizes on request.

**Handling and safety:** For maximum shelf life, keep containers sealed when not in use. Keep out of the reach of children. Uncured sealant irritates eyes and skin. Refer to MSDS.

**Shelf-life:** Sealed containers guaranteed for 6 months from the ship date when stored in a cool dry area below 70°F.



## US-EC-75

### Conductive Silicone RTV Adhesive for EMI/RFI Nickel Graphite Filler

US-EC-75 is an electrically conductive moisture curing silicone 1-part RTV adhesive rubber developed for emi/rfi applications requiring fast development of physical properties. When cured, the elastomer resists weathering, ozone, moisture, UV and high temperatures.

#### Product Features

- Fast Room Temperature cure
- Thixotropic paste
- Non-corrosive
- Temperature range -45°C to +260°C
- Conductive Filler: Nickel Graphite

**Colors:** Dark Gray

#### Typical Applications

- Electrically Conductive
- Thermally Conductive
- EMI-RFI Shielding
- Form in place gaskets

**Service temperature** -45°C to +260°C

#### Properties

**Uncured:** Viscosity, cps: 600,000      Specific Gravity: 2.29      Consistency: thixotropic paste  
Working time, in minutes at Room Temperature: 15  
Tack Free Time, in minutes at Room Temperature: 60  
Application Rate: 90 PSI, in g/minute: >400 (3mm orifice at 0.6 MPa)

#### Cured 72 Hours at Room Temperature:

Durometer, Shore A: 65  
Volume Resistivity; 0.06 Ohms-cm

**Method of Application:** Dispense sealant onto part. Mate parts, ensuring not all of the product is squeezed out of flange assembly. Allow to cure.

**Chemical cure system:** Oxime cure system

**Solids:** 98% solids, contains no solvents

**Curing:** Typical utilization involves dispensing in open air and ambient humidity to result in a high strength adhesive rubber. Cure speed can be accelerated with increased humidity to very rapid cures exhibiting surprisingly fast adhesion.

**Adhesion:** Primerless adhesion to most plastics, metals and typical substrates.

**Limitations:** Allow to fully cure before putting assembly into service. Ensure enough product remains between flanges to be effective in an assembly.

**Packaging:** Available in standard 1 & 3 oz squeeze tubes and 10.3 oz. cartridges. Other packaging sizes on request.

**Handling and safety:** For maximum shelf life, keep containers sealed when not in use. Keep out of the reach of children. Uncured sealant irritates eyes and skin. Refer to MSDS.

**Shelf-life:** Sealed containers guaranteed for 6 months from the ship date when stored in a cool dry area below 70°F.



## US-EC-75HF

### Conductive Silicone RTV Adhesive for EMI/RFI – High Flexibility Nickel Graphite Filler

US-EC-75HF is an electrically conductive moisture curing high flexibility silicone 1-part RTV adhesive rubber developed for emi/rfi applications requiring fast development of physical properties. When cured, the elastomer resists weathering, ozone, moisture, UV and high temperatures.

#### Product Features

- Fast Room Temperature cure
- Thixotropic paste
- Non-corrosive
- Temperature range -45°C to +260°C
- Conductive Filler: Nickel Graphite
- Increased flexibility over US-EC-75

**Colors:** Dark Gray

#### Typical Applications

- Electrically Conductive
- Thermally Conductive
- EMI-RFI Shielding
- Form in place gaskets

**Service temperature** -45°C to +260°C

#### Properties

**Uncured:** Viscosity, cps: 600,000      Specific Gravity: 2.29      Consistency: thixotropic paste  
Working time, in minutes at Room Temperature: 15  
Tack Free Time, in minutes at Room Temperature: 60  
Application Rate: 90 PSI, in g/minute: >400 (3mm orifice at 0.6 MPa)

#### Cured 72 Hours at Room Temperature:

Durometer, Shore A: 65  
Volume Resistivity: 0.09 Ohms-cm  
Thermal Conductivity: 2.5 W/m/K

**Method of Application:** Dispense sealant onto part. Mate parts, ensuring not all of the product is squeezed out of flange assembly. Allow to cure.

**Chemical cure system:** Oxime cure system

**Solids:** 98% solids, contains no solvents

**Curing:** Typical utilization involves dispensing in open air and ambient humidity to result in a high strength adhesive rubber. Cure speed can be accelerated with increased humidity to very rapid cures exhibiting surprisingly fast adhesion.

**Adhesion:** Primerless adhesion to most plastics, metals and typical substrates.

**Limitations:** Allow to fully cure before putting assembly into service. Ensure enough product remains between flanges to be effective in an assembly.

**Packaging:** Available in standard 1 & 3 oz squeeze tubes and 10.3 oz. cartridges. Other packaging sizes on request.

**Handling and safety:** For maximum shelf life, keep containers sealed when not in use. Keep out of the reach of children. Uncured sealant irritates eyes and skin. Refer to MSDS.

**Shelf-life:** Sealed containers guaranteed for 6 months from the ship date when stored in a cool dry area below 70°F.



## US-EC-78

### Conductive Silicone RTV Adhesive for EMI/RFI Silver Filler

**US-EC-78** is an electrically conductive moisture curing silicone 1-part RTV adhesive rubber developed for emi/rfi applications requiring fast development of physical properties. When cured, the elastomer resists weathering, ozone, moisture, UV and high temperatures.

#### Product Features

- Fast Room Temperature cure
- Thixotropic paste
- Non-corrosive
- Temperature range -45°C to +260°C
- Conductive Filler: Silver
- Very high conductivity compared with Nickel Graphite

**Colors:** Silver-Tan

#### Typical Applications

- High Electrical Conductivity
- High Thermal Conductivity
- EMI-RFI Shielding
- Form in place gaskets

**Service temperature** -45°C to +260°C

#### Properties

**Uncured:** Viscosity, cps: 30,000-80,000  
Specific Gravity: 3.06 Consistency: thixotropic paste  
Working time, in minutes at Room Temperature: 15  
Tack Free Time, in minutes at Room Temperature: 30  
Application Rate: 90 PSI, in g/minute: >400 (3mm orifice at 0.6 MPa)

#### Cured 72 Hours at Room Temperature:

Durometer, Shore A: 70  
Volume Resistivity; 0.005 Ohms-cm  
Thermal Conductivity: 2.5 W/m/K

**Method of Application:** Dispense sealant onto part. Mate parts, ensuring not all of the product is squeezed out of flange assembly. Allow to cure.

**Chemical cure system:** Oxime cure system

**Solids:** 98% solids, contains no solvents

**Curing:** Typical utilization involves dispensing in open air and ambient humidity to result in a high strength adhesive rubber. Cure speed can be accelerated with increased humidity to very rapid cures exhibiting surprisingly fast adhesion.

**Adhesion:** Primerless adhesion to most plastics, metals and typical substrates.

**Limitations:** Allow to fully cure before putting assembly into service. Ensure enough product remains between flanges to be effective in an assembly.

**Packaging:** Available in standard 1 & 3 oz squeeze tubes and 10.3 oz. cartridges. Other packaging sizes on request.

**Handling and safety:** For maximum shelf life, keep containers sealed when not in use. Keep out of the reach of children. Uncured sealant irritates eyes and skin. Refer to MSDS.

**Shelf-life:** Sealed containers guaranteed for 6 months from the ship date when stored in a cool dry area below 70°F.



## US-EC-783

### Conductive Silicone RTV Adhesive for EMI/RFI Silver Filler (MUST BE KEPT FROZEN PRIOR TO USE)

US-EC-78 is an electrically conductive moisture curing silicone 1-part RTV adhesive rubber developed for emi/rfi applications requiring fast development of physical properties. When cured, the elastomer resists weathering, ozone, moisture, UV and high temperatures.

#### Product Features

- Fast Room Temperature cure
- Thixotropic paste
- Non-corrosive
- Temperature range -45°C to +260°C
- Conductive Filler: Silver
- Very high conductivity compared with Nickel Graphite

**Colors:** Silver-Tan

#### Typical Applications

- High Electrical Conductivity
- High Thermal Conductivity
- EMI-RFI Shielding
- Form in place gaskets

**Service temperature** -45°C to +260°C

#### Properties

##### Uncured:

Viscosity, cps: 30,000-80,000  
Specific Gravity: 3.06      Consistency: thixotropic paste  
Working time, in minutes at Room Temperature: 15  
Tack Free Time, in minutes at Room Temperature: 30  
Application Rate: 90 PSI, in g/minute: >400 (3mm orifice at 0.6 MPa)

##### Cured 72 Hours at Room Temperature:

Durometer, Shore A: 70  
Volume Resistivity; 0.005 Ohms-cm  
Thermal Conductivity: 2.5 W/m/K

**Method of Application:** Dispense sealant onto part. Mate parts, ensuring not all of the product is squeezed out of flange assembly. Allow to cure.

**Chemical cure system:** Oxime cure system

**Solids:** 98% solids, contains no solvents

**Curing:** Typical utilization involves dispensing in open air and ambient humidity to result in a high strength adhesive rubber. Cure speed can be accelerated with increased humidity to very rapid cures exhibiting surprisingly fast adhesion.

**Adhesion:** Primerless adhesion to most plastics, metals and typical substrates.

**Limitations:** Allow to fully cure before putting assembly into service. Ensure enough product remains between flanges to be effective in an assembly.

**Packaging:** Available in standard 1 & 3 oz squeeze tubes and 10.3 oz. cartridges. Other packaging sizes on request.

**Handling and safety:** For maximum shelf life, keep containers sealed when not in use. Keep out of the reach of children. Uncured sealant irritates eyes and skin. Refer to MSDS.

**Shelf-life:** Sealed containers guaranteed for 6 months from the ship date when stored in a cool dry area below 70°F.



## US-EC-78HF

### Conductive Silicone RTV Adhesive for EMI/RFI

### Silver Filler – HIGH FLEXIBILITY

US-EC-78 is an electrically conductive moisture curing silicone 1-part RTV adhesive rubber developed for emi/rfi applications requiring fast development of physical properties. When cured, the elastomer resists weathering, ozone, moisture, UV and high temperatures.

#### Product Features

- Fast Room Temperature cure
- Thixotropic paste
- Non-corrosive
- Temperature range -45°C to +260°C
- Conductive Filler: Silver
- Very high conductivity compared with Nickel Graphite

**Colors:** Silver-Tan

#### Typical Applications

- High Electrical Conductivity
- High Thermal Conductivity
- EMI-RFI Shielding
- Form in place gaskets

**Service temperature** -45°C to +260°C

#### Properties

**Uncured:** Viscosity, cps: 30,000-80,000  
 Specific Gravity: 3.06 Consistency: thixotropic paste  
 Working time, in minutes at Room Temperature: 15  
 Tack Free Time, in minutes at Room Temperature: 30  
 Application Rate: 90 PSI, in g/minute: >400 (3mm orifice at 0.6 MPa)

#### Cured 72 Hours at Room Temperature:

Durometer, Shore A: 70  
 Volume Resistivity; 0.005 Ohms-cm  
 Thermal Conductivity: 2.5 W/m/K

**Method of Application:** Dispense sealant onto part. Mate parts, ensuring not all of the product is squeezed out of flange assembly. Allow to cure.

**Chemical cure system:** Oxime cure system

**Solids:** 98% solids, contains no solvents

**Curing:** Typical utilization involves dispensing in open air and ambient humidity to result in a high strength adhesive rubber. Cure speed can be accelerated with increased humidity to very rapid cures exhibiting surprisingly fast adhesion.

**Adhesion:** Primerless adhesion to most plastics, metals and typical substrates.

**Limitations:** Allow to fully cure before putting assembly into service. Ensure enough product remains between flanges to be effective in an assembly.

**Packaging:** Available in standard 1 & 3 oz squeeze tubes and 10.3 oz. cartridges. Other packaging sizes on request.

**Handling and safety:** For maximum shelf life, keep containers sealed when not in use. Keep out of the reach of children. Uncured sealant irritates eyes and skin. Refer to MSDS.

**Shelf-life:** Sealed containers guaranteed for 6 months from the ship date when stored in a cool dry area below 70°F.



## US-EC-81 (CHO-1075 Equivalent) Conductive Silicone RTV Adhesive for EMI/RFI Silver Coated Aluminum Filler

**US-EC-81-1075** is an electrically conductive moisture curing silicone 1-part RTV adhesive rubber developed for emi/rfi applications requiring fast development of physical properties. When cured, the elastomer resists weathering, ozone, moisture, UV and high temperatures.

### Product Features

- Fast Room Temperature cure
- Thixotropic paste
- Non-corrosive
- Temperature range -45°C to +260°C
- Conductive Filler: Silver Coated Aluminum
- Very high conductivity compared with Nickel Graphite

**Colors:** Silver-Tan

### Typical Applications

- High Electrical Conductivity
- High Thermal Conductivity
- EMI-RFI Shielding
- Form in place gaskets

**Service temperature** -45°C to +260°C

### Properties

**Uncured:** Viscosity, cps: 50,000  
 Specific Gravity: 1.86 Consistency: thixotropic paste  
 Working time, in minutes at Room Temperature: 15  
 Tack Free Time, in minutes at Room Temperature: 30  
 Application Rate: 90 PSI, in g/minute: >400 (3mm orifice at 0.6 MPa)

### Cured 72 Hours at Room Temperature:

Durometer, Shore A: 65  
 Volume Resistivity; 0.01 Ohms-cm  
 Thermal Conductivity: 2.5 W/m/K

**Method of Application:** Dispense sealant onto part. Mate parts, ensuring not all of the product is squeezed out of flange assembly. Allow to cure.

**Chemical cure system:** Oxime cure system

**Solids:** 98% solids, contains no solvents

**Curing:** Typical utilization involves dispensing in open air and ambient humidity to result in a high strength adhesive rubber. Cure speed can be accelerated with increased humidity to very rapid cures exhibiting surprisingly fast adhesion.

**Adhesion:** Primerless adhesion to most plastics, metals and typical substrates.

**Limitations:** Allow to fully cure before putting assembly into service. Ensure enough product remains between flanges to be effective in an assembly.

**Packaging:** Available in standard 1 & 3 oz squeeze tubes and 10.3 oz. cartridges. Other packaging sizes on request.

**Handling and safety:** For maximum shelf life, keep containers sealed when not in use. Keep out of the reach of children. Uncured sealant irritates eyes and skin. Refer to MSDS.

**Shelf-life:** Sealed containers guaranteed for 6 months from the ship date when stored in a cool dry area below 70°F.



## US-EC-81HF

### Conductive Silicone RTV Adhesive for EMI/RFI – High Flexibility Silver Coated Aluminum Filler

US-EC-81HF is an electrically conductive moisture curing high flexibility silicone 1-part RTV adhesive rubber developed for emi/rfi applications requiring fast development of physical properties. When cured, the elastomer resists weathering, ozone, moisture, UV and high temperatures.

#### Product Features

- Fast Room Temperature cure
- Thixotropic paste
- Non-corrosive
- Temperature range -45°C to +260°C
- Conductive Filler: Silver Coated Aluminum
- Very high conductivity compared with Nickel Graphite

**Colors:** Silver-Tan

#### Typical Applications

- High Electrical Conductivity
- High Thermal Conductivity
- EMI-RFI Shielding
- Form in place gaskets

**Service temperature** -45°C to +260°C

#### Properties

##### Uncured:

Viscosity, cps: 55,000  
Specific Gravity: 1.86      Consistency: thixotropic paste  
Working time, in minutes at Room Temperature: 15  
Tack Free Time, in minutes at Room Temperature: 30  
Application Rate: 90 PSI, in g/minute: >400 (3mm orifice at 0.6 MPa)

##### Cured 72 Hours at Room Temperature:

Durometer, Shore A: 60  
Volume Resistivity; 0.01 Ohms-cm  
Thermal Conductivity: 2.5 W/m/K

**Method of Application:** Dispense sealant onto part. Mate parts, ensuring not all of the product is squeezed out of flange assembly. Allow to cure.

**Chemical cure system:** Oxime cure system

**Solids:** 98% solids, contains no solvents

**Curing:** Typical utilization involves dispensing in open air and ambient humidity to result in a high strength adhesive rubber. Cure speed can be accelerated with increased humidity to very rapid cures exhibiting surprisingly fast adhesion.

**Adhesion:** Primerless adhesion to most plastics, metals and typical substrates.

**Limitations:** Allow to fully cure before putting assembly into service. Ensure enough product remains between flanges to be effective in an assembly.

**Packaging:** Available in standard 1 & 3 oz squeeze tubes and 10.3 oz. cartridges. Other packaging sizes on request.

**Handling and safety:** For maximum shelf life, keep containers sealed when not in use. Keep out of the reach of children. Uncured sealant irritates eyes and skin. Refer to MSDS.

**Shelf-life:** Sealed containers guaranteed for 6 months from the ship date when stored in a cool dry area below 70°F.





## US-FC-90

### High Performance Automotive Silicone RTV Gasket Maker

**US-FC-90** is a fast curing silicone RTV adhesive rubber developed for automotive gasketing applications requiring fast development of physical properties and fast unprimed adhesion. When cured, the elastomer resists weathering, ozone, moisture, UV and high temperatures. Also designed for superior oil resistance.

#### Product Features

- Fast Room Temperature cure
- Thixotropic paste
- Excellent unprimed adhesion to plastic, metal and glass
- Very fast onset of adhesion
- Exceptional oil resistance
- Good hydrolytic stability
- Able to bond through oil
- Non-corrosive oxime cure
- Temperature range -65°C to +260°C

**Colors:** Black, blue, red, gray, copper (custom colors available upon request)

#### Typical Applications

- Aftermarket adhesive sealant
- Automotive form in place gaskets
- Situations where the gasket flange is contaminated with oil
- Pressure can dispensing RTV

**Service temperature** -65°C to +260°C

#### Properties

**Uncured:** Viscosity, cps: 400,000      Specific Gravity: 1.28      Consistency: thixotropic paste  
 Working time, in minutes at Room Temperature: 8  
 Tack Free Time, in minutes at Room Temperature: 14  
 Application Rate: 90 PSI, in g/minute: >1000 (3mm orifice at 0.6 MPa)

#### Cured 24 Hours at Room Temperature:

Tensile Strength, PSI: 275      Elongation, %: 350  
 Durometer, Shore A: 38      Peel Strength, PPI: 20

#### Oil resistance - 5W30, 14 days 150°C:

Durometer: 33 (-12.1%)      Tensile: 215 (-22.0%)  
 Elongation: 428 (+22.5%)

**Method of Application:** Dispense sealant onto part. Mate parts, ensuring not all of the product is squeezed out of flange assembly. Allow to cure.

**Chemical cure system:** Oxime cure system

**Solids:** 98% solids, contains no solvents

**Curing:** Typical utilization involves dispensing in open air and ambient humidity to result in a high strength adhesive rubber. Cure speed can be accelerated with increased humidity to very rapid cures exhibiting surprisingly fast adhesion.

**Adhesion:** Primerless adhesion to most plastics, metals and typical substrates.

**Limitations:** Do not use product on head gaskets or fuel immersion applications. Allow to fully cure before putting assembly into service. Ensure enough product remains between flanges to be effective in an assembly.

**Packaging:** Available in 2.8 & 5.5oz squeeze tubes, 6.25oz sem kit cartridges, 10.3 oz. cartridges, 50 lb. pails and 500 lb. drums. This product is also available in customer defined packaging sizes, upon request.

**Handling and safety:** For maximum shelf life, keep containers sealed when not in use. Keep out of the reach of children. Uncured sealant irritates eyes and skin. Refer to MSDS.

**Shelf-life:** Sealed containers guaranteed for 1 year from the ship date when stored in a cool dry area below 70°F.

#### Applicable standards and O.E.M. part number interchange:

- Chrysler - 4206070, 4318025
- Ford - D6AZ-19562-B, E8AZ-19562-A, WSE-M46320-A2
- G.M. - 9985675, 1052751, 1052917, 12345739



## US-FC-900

### Fast Cure Gasoline Resistant Silicone RTV Adhesive Sealant

**US-FC-900** is a fast curing silicone RTV adhesive rubber. Developed for applications requiring gasoline resistance and fast development of physical properties, as well as fast unprimed adhesion. This is a 1-Part silicone that allows handling of the bonded assembly within one hour of application to the substrate. When cured, the elastomer resists weathering, ozone, moisture, UV and high temperature.

#### Product Features

- Exceptional gasoline resistance
- Thixotropic paste
- Excellent unprimed adhesion to plastic, metal and glass
- Very fast onset of adhesion
- Exceptional fuel resistance
- Non-corrosive oxime cure

**Color:** Black (custom colors available upon request)

#### Typical Applications

- Aftermarket adhesive sealant
- Automotive form in place gaskets
- Assembly line adhesive

#### Typical Properties:

**Uncured:** Viscosity, cps: 500,000 Specific Gravity: 1.28  
 Consistency: thixotropic paste Working time, minutes at room temperature: 8  
 Tack Free Time, minutes at room temperature: 20  
 Application Rate, 90 PSI, in g/minute: 400 (3mm orifice at 0.6 MPa)

**Cured 24 Hours at Room Temperature:** Tensile Strength, PSI: 300 Peel Strength, PPI: 40  
 Elongation, %: 260 Durometer, Shore A: 38

#### Gasoline Immersion Results, 7 days at 21°C:

Durometer: 33 (-12.1%)  
 Tensile: 150 (-50.0%)  
 Elongation: 200 (-22.5%)  
 Swell: +25%

**Method of Application:** Dispense sealant onto part, mate parts. Do not squeeze all of the product out of flange assembly. Allow to cure.

**Chemical cure system:** Oxime cure system

**Curing:** Cure speed can be accelerated with increased humidity to very rapid cures exhibiting surprisingly fast adhesion. Typical utilization involves dispensing in open air and ambient humidity to result in a high strength adhesive rubber.

**Solids:** 98% solids, contains no solvents

**Adhesion:** Primer-less adhesion to most plastics, metals and glass.

**Service temperature:** -65°C to +260°C

**Limitations:** Do not use product on head gaskets, solvent or fuel immersion applications. Allow to fully cure before putting assembly into service. Ensure enough product remains between flanges to be effective in an assembly.

**Packaging:** Available in 3oz squeeze tubes, 6.25oz sem kit cartridges, 10.3 oz. cartridges, 50 lb. pails and 500 lb. drums. This product is also available in customer defined packaging sizes, upon request.

**Handling and safety:** For maximum shelf life, keep containers sealed when not in use. Keep out of the reach of children. Uncured sealant irritates eyes and skin. Refer to MSDS.

**Shelf-life:** Sealed containers guaranteed for 1 year from the ship date when stored in a cool dry area below 70°F.



## US-FC-903 Fast Cure Silicone RTV Adhesive Sealant

**US-FC-903** is a fast curing silicone RTV adhesive rubber developed for applications requiring fast development of physical properties and fast unprimed adhesion. This is a 1-Part silicone that when applied to the substrate allows handling of the bonded assembly within an hour. When cured, the elastomer resists weathering, ozone, moisture, UV and high temperatures. Works well in manual and automatic dispensing equipment.

### Product Features

- Fast Room Temperature cure
- Thixotropic paste
- Excellent unprimed adhesion to many composites, metals and glass
- Rapid onset of adhesion
- High temperature resistant
- Non-corrosive oxime cure
- Temperature range -65°C to 260°C

**Typical Applications:** Industrial bonding; Form in place gaskets; Adhesive Sealant

**Colors:** Black and Gray (Custom colors available upon request)

### Typical Properties

#### Uncured

Viscosity, cps: 400,000	Specific Gravity: 1.29
Consistency: thixotropic paste	
Working time, minutes at Room Temperature: 5	
Tack Free Time, minutes at Room Temperature: 15	
Application Rate, 90 PSI, in g/minute: >1000 (3mm orifice at 0.6 MPa)	

#### Cured 72 Hours at Room Temperature

Tensile Strength, PSI: 275	Peel Strength, PPI: 30
Elongation, %: 350	Durometer, Shore A: 35

**Method of Application:** Dispense sealant onto part and mate parts. Be sure not to squeeze all of the product out of flange assembly. Allow to cure.

**Curing:** Cure speed can be accelerated with increased humidity to very rapid cures exhibiting surprisingly fast adhesion. Typical utilization involves dispensing in open air and ambient humidity to result in a high strength adhesive rubber.

**Chemical cure system:** Oxime cure system

**Packaging:** Available in 2.8 & 5.5oz squeeze tubes, 6.25oz sem kit cartridges, 10.3 oz. cartridges, 50 lb. pails and 500 lb. drums. This product is also available in customer defined packaging sizes, upon request.

**Solids:** 98% solids, contains no solvents

**Adhesion:** Primer-less adhesion to most metals and typical substrates.

**Limitations:** Do not use product on head gaskets or fuel immersion applications. Allow to fully cure before putting assembly into service. Ensure enough product remains between flanges to be effective in an assembly.

**Handling and safety:** For maximum shelf life, keep containers sealed when not in use. Keep out of the reach of children. Uncured sealant irritates eyes and skin. Refer to MSDS.

**Shelf-life:** Sealed containers guaranteed for 1 year from the ship date when stored in a cool dry area below 70°F.

**Applicable standards:** Conforms to GM 9985675 and GM low volatility requirements.



## US-FC-9021

**US-FC-9021** is a fast curing silicone RTV adhesive rubber developed for bonding applications requiring fast development of physical properties. This is a 2-Part silicone that when applied to the substrate and cured allows handling of the bonded assembly within minutes. When cured, the elastomer resists weathering, ozone, moisture, UV and high temperatures. Works well in automatic dispensing equipment.

### Product Features

- Fast room temperature cure
- 2-part 1:1 mix RTV
- Thixotropic
- Temperature range -45°C to 250°C

**Color:** Black (custom colors available upon request)

### Typical Applications

- Component bonding
- Gasket fabrication

**Chemical cure system:** Platinum catalyzed, addition cure system.

### Typical Properties

**Uncured**      Viscosity, cps: 35,000      Specific Gravity: 1.30      Consistency mixed: thixotropic paste  
 Working time at Room Temperature: 6 minutes  
 Tack Free Time at Room Temperature: 10 minutes

### Cured

Tensile Strength, PSI: 300  
 Elongation, %: 300  
 Durometer, Shore A: 30  
 Thermal Conductivity W/m °K: 0.0005  
 Coefficient of Thermal Expansion:  $20 \times 10^{-5}$

### CURE SPEED OPTIONS

	<u>Standard</u>	<u>Fast</u>
WORK TIME at Room Temperature	10min	2min
CURE TIME at Room Temperature	30min	15min

**Mixing Instructions:** The preferred method of mixing and application is through a static mixer at a 1:1 mix ratio by volume.

**Handling precautions:** This is a Platinum Cure system product. The catalyst can be deactivated by exposure to sulfur containing compounds like thiols, sulfides, sulfates, organic rubber containing sulfur, nitrogen containing compounds like amines, amides, imides, azides, tin metals or compounds, or tin cured RTV's.

**Depth of cure vs time:** In 30 minutes, any depth of application filled with this product will be cured and fully encapsulated.

**Adhesion:** Primer-less adhesion to most plastics, metals and typical substrates.

**Service temperature:** -45°C to +250°C

**Limitations:** Do not use product on head gaskets or in solvent or fuel immersion applications. Allow to fully cure before putting assembly into service.

**Packaging:** Available in 2.8 & 5.5oz squeeze tubes, 6.25oz sem kit cartridges, 400 ml. cartridges, 40 lb. pail kits and 400 lb. drum kits. This product is also available in customer defined packaging sizes, upon request.

**Handling and safety:** For maximum shelf life, keep containers sealed when not in use. Keep out of the reach of children. Uncured sealant irritates eyes and skin. Refer to MSDS.

**Shelf-life:** Sealed containers guaranteed for 1 year from the ship date when stored in a cool dry area below 70°F.



## US-FC-1299 Fast Cure Silicone RTV Adhesive Sealant

**US-FC-1299** is a fast curing silicone RTV adhesive rubber developed for applications requiring fast development of physical properties and fast unprimed adhesion. This is a 1-Part silicone that when applied to the substrate allows handling of the bonded assembly within an hour. When cured, the elastomer resists weathering, ozone, moisture, UV and high temperatures. Works well in manual and automatic dispensing equipment.

### Product Features

- Fast Room Temperature cure
- Thixotropic paste
- Excellent unprimed adhesion to plastic, metal and glass
- Fast onset of adhesion
- Neutral cure

### Typical Applications

- Industrial Bonding
- Assembly line adhesive
- Adhesive Sealant

**Color:** Translucent (custom colors available upon request)

**Service Temperature:** -65°C to 260°C

### Typical Properties

#### Uncured

Viscosity, cps: 100,000    Specific Gravity: 1.12    Consistency: light paste  
Working time, in minutes, at Room Temperature: 8  
Tack Free Time, in minutes, at Room Temperature: 20

#### Cured - Room Temperature

Tensile Strength, PSI: 450    Elongation, %: 350  
Durometer, Shore A: 30    Peel Strength, PPI: 20

**Method of Application:** Dispense product onto part and mate parts. Be sure not to squeeze all of the product out of flange assembly. Allow to cure.

**Chemical cure system:** Oxime cure system

**Solids:** 98% solids, contains no solvents

**Curing:** Cure speed can be accelerated with increased humidity to very rapid cures exhibiting surprisingly fast adhesion. Typical utilization involves dispensing in open air and after exposure to ambient humidity, a room temperature cured elastomer with high adhesive properties is formed.

**Adhesion:** Primer-less adhesion to most plastics, metals and typical substrates.

**Limitations:** Do not use product on head gaskets or fuel immersion applications. Allow to fully cure before putting assembly into service. Ensure enough product remains between flanges or bonded parts to be effective in an assembly.

**Packaging:** Available in 2.8 & 5.5oz squeeze tubes, 6.25oz sem kit cartridges, 10.3 oz. cartridges, 40 lb. pails and 400 lb. drums. This product is also available in customer defined packaging sizes, upon request.

**Handling and safety:** For maximum shelf life, keep containers sealed when not in use. Keep out of the reach of children. Uncured sealant can irritate eyes and skin. Refer to MSDS.

**Compatibility:** Fully compatible with all materials. Cannot be cure inhibited or contaminated like addition cure systems.

**Shelf-life:** Sealed containers guaranteed for 1 year from the ship date when stored in a cool dry area below 70°F.



# US-FC-18003

## VERY FAST CURE Self-Leveling Silicone RTV Adhesive Coating

US-FC-18003 is a 1-part silicone RTV developed for coating and seam filling applications. It offers unprimed adhesion to many metals and plastics. When cured, results in a very flexible and durable silicone adhesive coating. The elastomer resists weathering, ozone, moisture, UV and high temperatures.

### Product Features

- Very fast Room Temperature cure
- Neutral Cure
- Self-leveling liquid RTV
- Adhesion to metals and many plastics
- Temperature range -65°C to +250°C

**Color:** Translucent (custom colors available upon request)

### Typical Applications

- Coating assemblies
- Seam filling in construction operations
- Industrial sealing
- Thin section potting & encapsulation

### Typical Properties

#### Uncured

Viscosity, cps: 30,000-40,000      Specific Gravity: 1.03  
 Consistency: self leveling liquid  
 Tack Free Time, in minutes at room temperature: 5

#### Cured 72 Hours at Room Temperature

Tensile Strength, PSI: 300      Elongation, %: 300  
 Durometer, Shore A: 25      Peel Strength, PPI: 40

**Method of Application:** Dip or dispense coating onto assembly, allow to cure.

**Chemical cure system:** Oxime cure system

**Curing:** Cure speed can be accelerated with increased humidity to very rapid cures exhibiting surprisingly fast adhesion. Typical utilization involves dispensing in open air and ambient humidity to result in a durable adhesive rubber coating.

**Packaging:** Available in 3oz squeeze tubes, 6.25oz sem kit cartridges, 10.3 oz. cartridges, 8 lb. containers, 40 lb. pails and 440 lb. drums. This product is also available in customer defined packaging sizes, upon request.

**Solids:** 98% solids, contains no solvents

**Adhesion:** Primer-less adhesion to most plastics, metals and typical substrates.

**Service temperature:** -65°C to 250°C

**Limitations:** Do not use product in fuel or solvent immersion applications. Allow to fully cure before putting assembly into service.

**Handling and safety:** For maximum shelf life, keep containers sealed when not in use. Keep out of the reach of children. Uncured sealant irritates eyes and skin. Refer to MSDS.

**Shelf-life:** Sealed containers guaranteed for 1 year from the ship date when stored in a cool dry area below 70°F.



# US-HC-453

## Heat Cure 1 Part Self Leveling Low Viscosity Silicone Adhesive Sealant

US-HC-453 is a 1-part, heat cure silicone developed for conformal coating applications. It offers unprimed adhesion to metals and many plastics. Heated cures result in a tough and durable silicone conformal coating.

### Product Features

- Neutral Addition Cure
- Fast heat cure
- Low Viscosity
- Fluoresces under UV light to enable coating inspection
- Adhesion to metals and many plastics
- Convenient 1 part system

### Product Applications

- Coating electronic assemblies
- Industrial coating and sealing
- Thin section potting & encapsulation

**Chemical cure system:** Platinum catalyzed, addition cure system.

### Typical Properties

#### Uncured

Specific Gravity: 0.98	Color: Clear	Solids: 100 %
Shelf Life: 12 MONTHS	Viscosity: 125 cps.	Tack Free Time at 110°C: 15 minutes

#### Cured – 20 Minutes at 110°C

Durometer, Shore A: 10  
 Dielectric Strength kv/mm: 13  
 Dielectric Constant: 2.4  
 Dissipation Factor at 1kHz: 0.01  
 Thermal conductivity: 0.0005

**Application Methods:** Apply by: pouring, dipping, brushing, flow-coat, spin-on or spraying.

**Curing:** Can be accomplished with heat to very rapid cures. Typical utilization involves dispensing in open air and oven, IR, or hot air curing.

**Handling precautions:** Avoid contact with tin cured RTV's, sulphur compounds, azides, imides, latex rubber gloves, and amines as cure system can be deactivated

**Solids:** 100% solids, contains no solvents

**Adhesion:** This product offers primer-less adhesion to plastics, metals and typical substrates.

**Service temperature:** -65°C to +250°C continuous

**Limitations:** Do not use product in solvent or fuel immersion applications. Allow to fully cure before putting assembly into service.

**Packaging:** Available in 8 pound gallon cans, 40 lb. pails and 400 lb. drums. This product is also available in customer defined packaging upon request.

**Handling and safety:** For maximum shelf life, keep containers sealed when not in use. Keep out of the reach of children. Uncured sealant irritates eyes and skin. Refer to MSDS.

**Shelf-life:** Sealed containers guaranteed for 6 months from the ship date when stored in a cool dry area below 70°F.

**Applicable standards:** Conforms to GM low volatility requirements.



## US-HC-456 Heat Cure 1 Part Self Leveling Adhesive Sealant

**US-HC-456** is a 1-part, heat cure silicone developed for conformal coating applications. Offers unprimed adhesion to metals and many plastics. Heated cures result in a tough and durable silicone conformal coating.

### Product Features

- Neutral Addition Cure
- Fast heat cure
- Self-leveling liquid
- Fluoresces under UV light to enable coating inspection
- Adhesion to metals and many plastics
- Convenient 1 part system

### Product Applications

- Coating electronic assemblies
- Industrial coating and sealing
- Thin section potting & encapsulation

**Chemical cure system:** Platinum catalyzed, addition cure system.

### Typical Properties

#### Uncured

Specific Gravity: 0.98  
 Color: Clear  
 Solids: 100 %  
 Shelf Life: 12 MONTHS  
 Viscosity: 600 cps.  
 Tack Free Time at 110°C: 15 minutes

#### Cured 20 Minutes at 110°C

Durometer, Shore A: 10  
 Dielectric Strength, kv/mm: 13  
 Dielectric Constant: 2.4  
 Dissipation Factor at 1kHz: 0.01  
 Thermal conductivity: 0.0005

**Application Methods:** Apply by: pouring, dipping, brushing, flow-coat, spin-on or spraying.

**Curing:** Can be accomplished with heat to very rapid cures. Typical utilization involves dispensing in open air and oven, IR, or hot air curing.

**Handling precautions:** Avoid contact with tin cured RTV's, sulphur compounds, azides, imides, latex rubber gloves, and amines as cure system can be deactivated

**Solids:** 100% solids, contains no solvents

**Adhesion:** This product offers primer-less adhesion to plastics, metals and typical substrates.

**Service temperature:** -65°C to 250°C continuous

**Limitations:** Do not use product in solvent or fuel immersion applications. Allow to fully cure before putting assembly into service.

**Packaging:** Available in 8 pound gallon cans, 40 lb. pails and 400 lb. drums. This product is also available in customer defined packaging upon request.

**Handling and safety:** For maximum shelf life, keep containers sealed when not in use. Keep out of the reach of children. Uncured sealant irritates eyes and skin. Refer to MSDS.

**Shelf-life:** Sealed containers guaranteed for 6 months from the ship date when stored in a cool dry area below 70°F.

**Applicable standards:** Conforms to GM low volatility requirements.





## US-HC-459

### Heat Cure 1 Part Thixotropic Adhesive Sealant

**US-HC-459** is a heat curing silicone RTV adhesive rubber developed for bonding applications requiring fast development of physical properties. This is a 1-part silicone that when applied to the substrate and thermally cured allows handling of the bonded assembly within minutes. Works well in manual and automatic dispensing equipment.

#### Product Features

- 15 minute cure at 150°C
- Can Cure in Fully Encapsulated Assemblies
- Deep Section Cure
- Will Cure in Lamination Assemblies
- Thixotropic
- 1-Part heat cure RTV
- Temperature range -65°C to +250°C

#### Product Applications

- Component coating
- Bonds silicone to a variety of other substrates

#### Chemical cure system

Platinum catalyzed, addition cure system.

#### Typical Properties

##### Uncured:

Specific Gravity: 1.04  
Color: translucent  
Solids: 100 %  
Viscosity: 500,000 cps.  
Tack Free Time at 150°C: 15 minutes

##### Cured 15 min at 150C :

Tensile Strength, PSI: 200  
Elongation, %: 300  
Durometer, Shore A: 15  
Thermal conductivity: 0.0005  
Coefficient of Thermal Expansion: 20 x 10<sup>-5</sup>

**Application Methods:** Apply by: pouring, dipping, brushing, flow-coat, spin-on or spraying.

**Curing:** Can be accomplished with heat to very rapid cures. Typical utilization involves dispensing in open air and oven, IR, or hot air curing.

**Handling precautions:** Avoid contact with tin cured RTV's, sulphur compounds, azides, imides, latex rubber gloves, and amines as cure system can be deactivated

**Solids:** 100% solids, contains no solvents

**Adhesion:** This product offers primer-less adhesion to plastics, metals and typical substrates.

**Service temperature:** -65°C to 250°C continuous

**Limitations:** Do not use product in solvent or fuel immersion applications. Allow to fully cure before putting assembly into service.

**Packaging:** Available in 8 pound gallon cans, 40 lb. pails and 400 lb. drums. This product is also available in customer defined packaging upon request.

**Handling and safety:** For maximum shelf life, keep containers sealed when not in use. Keep out of the reach of children. Uncured sealant irritates eyes and skin. Refer to MSDS.

**Shelf-life:** Sealed containers guaranteed for 6 months from the ship date when stored in a cool dry area below 70°F.

**Applicable standards:** Conforms to GM low volatility requirements.



## US-HC-468 Heat Cure 1 Part Self Leveling Silicone Adhesive Sealant

**US-HC-468** is a 1-part, heat cure silicone developed for conformal coating applications. Offers unprimed adhesion to metals and many plastics. Heated cures result in a tough and durable silicone conformal coating.

### Product Features

- Neutral Addition Cure
- Fast Heat Cure
- Self-leveling liquid
- Fluoresces under UV light to enable coating inspection
- Adhesion to metals and many plastics
- Convenient 1 part system

### Product Applications

- Coating electronic assemblies
- Industrial coating and sealing
- Thin section potting & encapsulation

**Chemical cure system:** Platinum catalyzed, addition cure system.

### Typical Properties

#### Uncured:

Specific Gravity: 0.98	Color: Clear
Solids: 100 %	Shelf Life: 12 MONTHS
Viscosity: 230 cps.	
Tack Free Time at 110°C: 15 minutes	

#### Cured 20 Minutes at 110°C:

Dielectric Strength kv/mm: 13
Dielectric Constant: 2.4
Dissipation Factor at 1kHz: 0.001
Thermal conductivity: 0.0005

**Application Methods:** Apply by: pouring, dipping, brushing, flow-coat, spin-on or spraying.

**Curing:** Can be accomplished with heat to very rapid cures. Typical utilization involves dispensing in open air and oven, IR, or hot air curing.

**Handling precautions:** Avoid contact with tin cured RTV's, sulphur compounds, azides, imides, latex rubber gloves, and amines as cure system can be deactivated

**Solids:** 100% solids, contains no solvents

**Adhesion:** This product offers primer-less adhesion to plastics, metals and typical substrates.

**Service temperature:** -65°C to 250°C continuous

**Limitations:** Do not use product in solvent or fuel immersion applications. Allow to fully cure before putting assembly into service.

**Packaging:** Available in 8 pound gallon cans, 40 lb. pails and 400 lb. drums. This product is also available in customer defined packaging upon request.

**Handling and safety:** For maximum shelf life, keep containers sealed when not in use. Keep out of the reach of children. Uncured sealant irritates eyes and skin. Refer to MSDS.

**Shelf-life:** Sealed containers guaranteed for 6 months from the ship date when stored in a cool dry area below 70°F.

**Applicable standards:** Conforms to GM low volatility requirements.



## US-HC-9135 Heat Cure 1 Part Thixotropic Adhesive Sealant

**US-HC-9135** is a heat curing, high strength silicone adhesive rubber developed for bonding applications requiring fast development of physical properties and excellent adhesion. This is a 1-part silicone that when applied to the substrate and thermally cured allows handling of the bonded assembly within minutes. Works well in manual and automatic dispensing equipment.

### Product Features

- 15 minute cure at 150°C
- Excellent Unprimed Adhesion to Metals and Glass
- Thixotropic Paste
- Temperature range -45°C to 260°C

### Product Applications

- Assembly Line Adhesive
- Form in Place Gaskets
- Adhesive Sealant

**Chemical cure system:** Platinum catalyzed, addition cure system.

### Typical Properties

**Uncured:** Specific Gravity: 1.08                      Color: translucent                      Solids: 100 %  
 Viscosity: 500,000 cps.                      Tack Free Time at 150°C: 15 minutes  
 Working Time at Room Temperature: >7 days

### Cured 15 min at 150C :

Tensile Strength, PSI: 600                      Elongation, %: 450                      Durometer, Shore A: 30  
 Thermal conductivity: 0.0005                      Coefficient of Thermal Expansion: 20 x 10-5  
 Dissipation Factor: 0.001                      Dielectric Constant: 2.8  
 Dielectric Strength V/mil: >500

**Curing:** Can be accomplished with heat to very rapid cures. Typical utilization involves dispensing in open air and oven, IR, or hot air curing.

**Handling precautions:** Avoid contact with tin cured RTV's, sulphur compounds, azides, imides, latex rubber gloves, and amines as cure system can be deactivated

**Solids:** 100% solids, contains no solvents

**Adhesion:** This product offers primerless adhesion to plastics, metals and typical substrates.

**Service temperature:** -45°C to 260°C continuous

**Limitations:** Do not use product in solvent or fuel immersion applications. Allow to fully cure before putting assembly into service.

**Packaging:** Available in 2.8 & 5.5oz squeeze tubes, 6.25oz sem kit cartridges, 10.3oz. cartridges, 40 lb. pails and 400 lb. drums. This product is also available in customer defined packaging upon request.

**Handling and safety:** For maximum shelf life, keep containers sealed when not in use. Keep out of the reach of children. Uncured sealant irritates eyes and skin. Refer to MSDS.

**Shelf-life:** Sealed containers guaranteed for 6 months from the ship date when stored in a cool dry area below 70°F.

**Applicable standards:** Conforms to GM low volatility requirements.



## US-UV-462 UV Dual Cure Silicone Adhesive Sealant

**US-HC-462** is a UV dual cure silicone RTV adhesive rubber developed for applications requiring fast UV cure. This is a 1-Part silicone that when applied and cured allows handling of the bonded assembly within minutes. A secondary moisture cure enables full curing in shadowed areas. When cured, the elastomer resists weathering, ozone, moisture, UV and high temperatures. Works well in manual and automatic dispensing equipment.

### Product Features

- Fast UV cure
- Excellent unprimed adhesion
- Convenient, UV accelerated instant cure capability
- Temperature range -40°C to 260°C
- Secondary moisture cure for shadow areas

### Typical Applications

- Assembly line adhesive
- Conformal Coating
- Adhesive Sealant

**Color:** Clear (custom colors available upon request)

**Service Temperature:** -40°C to 260°C

### Typical Properties

#### Uncured:

Viscosity: 6,000 to 8,000 cps.      Specific Gravity: 1.02      Consistency: liquid

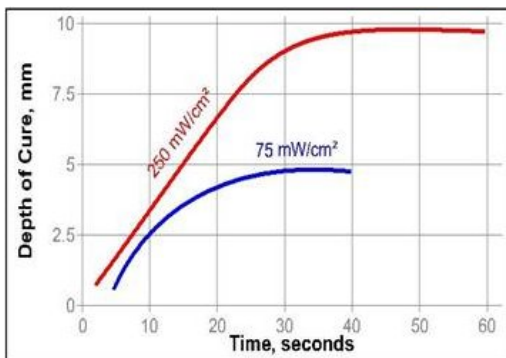
#### Cured 24 Hours at Room Temperature:

Tensile Strength, PSI: 100      Durometer, Shore A: 31-39

### UV Accelerated Curing

A short term UV exposure followed by a secondary, moisture cure results in cured elastomer exhibiting outstanding adhesion.

### Typical UV Lamp Performance



**Method of Application:** Dispense sealant onto part either manually or robotically. Allow to cure.

**Chemical cure system:** UV Acrylic with a secondary moisture cure system.

**Solids:** 98% solids, contains no solvents

**Curing:** Typical utilization involves short term UV exposure followed by a secondary moisture cure.

**Adhesion:** Primerless adhesion to most plastics, metals and typical substrates.

**Limitations:** FOR MAXIMUM SHELF LIFE THIS PRODUCT MUST BE FROZEN. Do not use product on head gaskets or fuel immersion applications. Allow to fully cure before putting

assembly into service. Ensure enough product remains between flanges to be effective in an assembly.

**Compatibility:** Fully compatible with all materials. Cannot be cure inhibited or contaminated like addition cure systems.

**Packaging:** Available in 2.8 & 5.5oz squeeze tubes, 6.25oz sem kit cartridges, 10.3 oz. cartridges, 40 lb. pails and 400 lb. drums. This product is also available in customer defined packaging upon request.

**Handling and safety:** For maximum shelf life, keep containers sealed when not in use. Keep out of the reach of children. Uncured sealant irritates eyes and skin. Refer to MSDS.

**Shelf-life:** Sealed containers guaranteed for 1 year from the ship date when stored in a freezer.



## US-UV-465 UV Dual Cure Silicone Adhesive Sealant

**US-UV-465** is a UV dual cure silicone RTV adhesive rubber developed for applications requiring fast UV cure. This is a 1-Part silicone that when applied and cured allows handling of the bonded assembly within minutes. A secondary moisture cure enables full curing in shadowed areas. When cured, the elastomer resists weathering, ozone, moisture, UV and high temperatures. Works well in manual and automatic dispensing equipment.

### Product Features

- Fast UV cure
- Excellent unprimed adhesion
- Convenient, UV accelerated instant cure capability
- Temperature range -40°C to +260°C
- Secondary moisture cure for shadow areas

### Typical Applications

- Assembly line adhesive
- Conformal Coating
- Adhesive Sealant

**Color:** Clear (custom colors available upon request)

**Service Temperature:** -40°C to +260°C

### Typical Properties

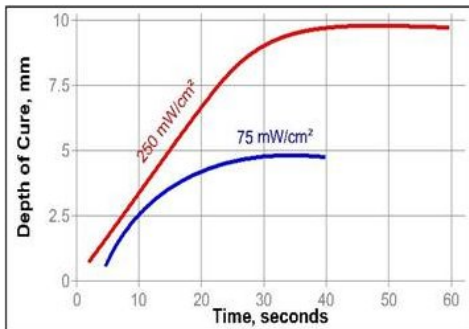
#### Uncured:

Viscosity: 2,500 cps.  
Specific Gravity: 1.02  
Consistency: liquid

#### Cured 24 Hours at Room Temperature:

Tensile Strength, PSI: 80  
Durometer, Shore A: 25

**UV Accelerated Curing:** A short term UV exposure followed by a secondary, moisture cure results in cured elastomer exhibiting outstanding adhesion.



### Typical UV Lamp Performance

**Method of Application:** Dispense sealant onto part either manually or robotically. Allow to cure.

**Chemical cure system:** UV Acrylic with a secondary moisture cure system.

**Curing:** Typical utilization involves short term UV exposure followed by a secondary moisture cure.

**Adhesion:** Primerless adhesion to most plastics, metals and typical substrates.

**Limitations:** FOR MAXIMUM SHELF LIFE THIS PRODUCT MUST BE FROZEN. Do not use product on head gaskets or fuel immersion applications. Allow to fully cure before putting assembly into service. Ensure enough product remains between flanges to be effective in an assembly.

**Compatibility:** Fully compatible with all materials. Cannot be cure inhibited or contaminated like addition cure systems.

**Packaging:** Available in 2.8 & 5.5oz squeeze tubes, 6.25oz sem kit cartridges, 10.3 oz. cartridges, 40 lb. pails and 400 lb. drums. This product is also available in customer defined packaging upon request.

**Handling and safety:** For maximum shelf life, keep containers sealed when not in use. Keep out of the reach of children. Uncured sealant irritates eyes and skin. Refer to MSDS.

**Shelf-life:** Sealed containers guaranteed for 1 year from the ship date when stored in a cool dry area below 70°F.



# US-UV-15249

## UV Dual Cure Thixotropic Paste RTV

**US-UV-15249** is a UV dual cure, high strength acetoxy silicone RTV adhesive rubber developed for UV applications. This is a 1-Part silicone that when applied to the substrate allows handling of the bonded assembly within seconds. When cured, the elastomer resists weathering, ozone, moisture, UV and high temperatures. Works well in manual and automatic dispensing equipment.

### Product Features

- Fast UV cure
- Excellent unprimed adhesion
- Convenient, UV accelerated instant cure capability
- Temperature range -65°C to 260°C
- Secondary moisture cure for shadow areas

### Typical Applications

- Assembly line adhesive
- Form in place gaskets
- Adhesive Sealant

**Color:** Translucent (custom colors available upon request)

**Service Temperature:** -65°C to +260°C

### Typical Properties

#### Uncured:

Viscosity: 500,000 cps.                      Specific Gravity: 1.12  
 Consistency: thixotropic paste

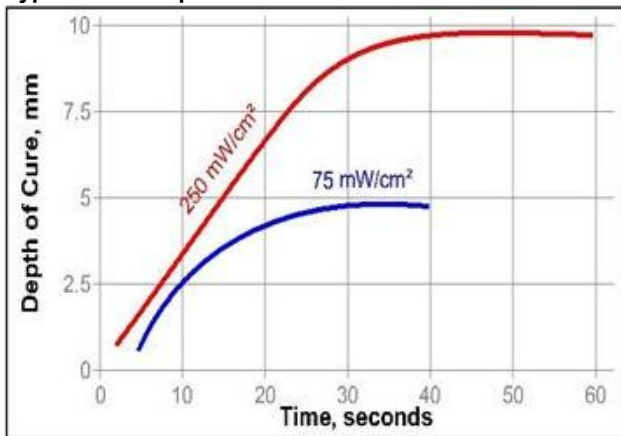
#### Cured 24 Hours at Room Temperature:

Tensile Strength, PSI: 500                      Elongation, %: 300  
 Durometer, Shore A: 50                      Peel Strength, PPI: 50  
 Tear Strength, PPI: 50                      Thermal conductivity: 0.0005  
 Coefficient of Thermal Expansion:  $20 \times 10^{-5}$

### UV Accelerated Curing

A short term UV exposure followed by a secondary, moisture cure results in cured elastomer exhibiting outstanding adhesion.

### Typical UV Lamp Performance



**Method of Application:** Dispense sealant onto part either manually or robotically. Allow to cure.

**Chemical cure system:** UV Acrylic with a secondary, Alkoxy moisture cure system.

**Solids:** 98% solids, contains no solvents

**Curing:** Typical utilization involves short term UV exposure followed by a secondary moisture cure.

**Adhesion:** Primerless adhesion to most plastics, metals and typical substrates.

**Limitations:** FOR MAXIMUM SHELF LIFE THIS PRODUCT MUST BE FROZEN. Do not use product on head gaskets or fuel immersion applications. Allow to fully cure before putting assembly into service. Ensure enough product remains between flanges to be effective in an assembly.

**Compatibility:** Fully compatible with all materials. Cannot be cure inhibited or contaminated like addition cure systems.

**Packaging:** Available in 2.8 & 5.5oz squeeze tubes, 6.25oz sem kit cartridges, 10.3 oz. cartridges, 40 lb. pails and 400 lb. drums. This product is also available in customer defined packaging upon request.

**Handling and safety:** For maximum shelf life, keep containers sealed when not in use. Keep out of the reach of children. Uncured sealant irritates eyes and skin. Refer to MSDS.

**Shelf-life:** Sealed containers guaranteed for 1 year from the ship date when stored in a cool dry area below 70°F.



## US-UV-15264 UV Dual Cure Silicone Liquid RTV

**US-UV-15264** is a UV dual cure neutral silicone RTV adhesive rubber developed for UV applications. This is a 1-Part silicone that when applied to the substrate allows handling of the bonded assembly within seconds. When cured, the elastomer resists weathering, ozone, moisture, UV and high temperatures. Works well in manual and automatic dispensing equipment.

### Product Features

- Fast UV cure
- Excellent unprimed adhesion
- Convenient, UV accelerated instant cure capability
- Temperature range -65 to 260C
- Secondary moisture cure for shadow areas

### Typical Applications

- Assembly line adhesive
- Form in place gaskets
- Adhesive sealant

**Service temperature:** -65°C to 260°C

### Typical Properties

#### Uncured:

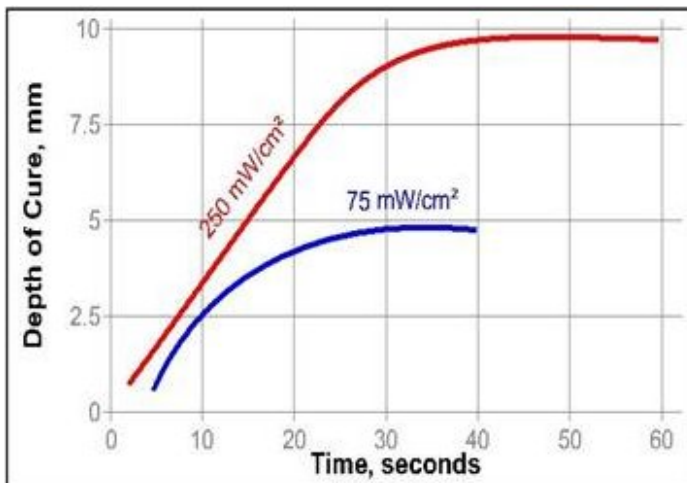
Viscosity, cps: 70,000      Specific Gravity: 1.04      Consistency: heavy liquid

#### Cured 24 Hrs. at Room Temperature:

Tensile Strength, PSI: 200 Durometer, Shore A: 30UV

### Accelerated Curing

A short term UV exposure, followed by a secondary moisture cure, results in cured elastomer exhibiting outstanding adhesion.



### Typical UV Lamp Performance Method of Application

Dispense sealant onto part either manually or robotically. Allow to cure.

### Chemical Cure System

UV Acrylic with a secondary Alkoxy moisture cure system

**Solids:** 98% solids, contains no solvents

**Curing:** Typical utilization involves short term UV exposure followed by a secondary moisture cure.

**Adhesion:** Primerless adhesion to most plastics, metals and typical substrates

**Limitations:** For Maximum Shelf Life Product Must Be Frozen. Do not use product on head gaskets or fuel immersion applications. Allow to fully cure before putting assembly into

service. Ensure enough product remains between flanges to be effective in an assembly.

**Packaging:** Available in 2.8 & 5.5oz squeeze tubes, 6.25oz sem kit cartridges, 10.3 oz. cartridges, 40 lb. pails and 400 lb. drums. This product is also available in customer defined packaging upon request.

**Compatibility:** Fully compatible with all materials. Cannot be cure inhibited or contaminated like addition cure systems.

**Handling and Safety:** For maximum shelf life, keep containers sealed when not in use. Keep out of the reach of children. Uncured sealant irritates eyes and skin. Refer to MSDS.

**Shelf-life:** Sealed containers guaranteed for 1 year from the ship date when stored in a cool dry area below 70°F.





# US-UV-15879

## UV Dual Cure Self Leveling Silicone Adhesive Sealant

**US-UV-15879** is a UV dual cure silicone RTV adhesive rubber developed for applications requiring fast UV cure. This is a 1-Part silicone that when applied and cured allows handling of the bonded assembly within minutes. A secondary moisture cure enables full curing in shadowed areas. When cured, the elastomer resists weathering, ozone, moisture, UV and high temperatures. Works well in manual and automatic dispensing equipment.

### Product Features

- Fast UV cure
- Excellent unprimed adhesion
- Convenient, UV accelerated instant cure capability
- Temperature range -40 to 260C
- Secondary moisture cure for shadow areas

### Typical Applications

- Assembly line adhesive
- Conformal Coating
- Adhesive Sealant

**Color:** Clear (custom colors available upon request)

**Service Temperature:** -40°C to 260°C

### Typical Properties

#### Uncured:

Viscosity: 400-800 cps.      Specific Gravity: 1.00      Consistency: liquid

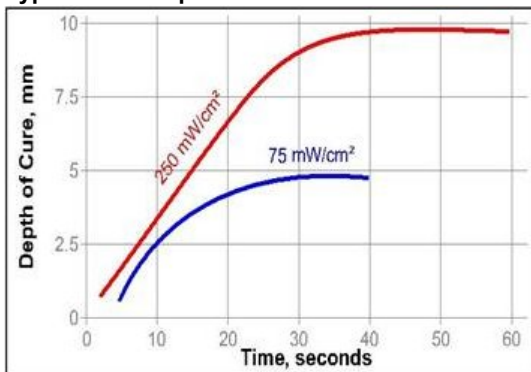
#### Cured 24 hrs. at Room Temperature:

Tensile Strength, PSI: 100      Durometer, Shore A: 60-90

### UV Accelerated Curing

A short term UV exposure followed by a secondary, moisture cure results in cured elastomer exhibiting outstanding adhesion.

### Typical UV Lamp Performance



### Method of Application

Dispense sealant onto part either manually or robotically. Allow to cure.

### Chemical cure system

UV Acrylic with a secondary moisture cure system.

**Curing:** Typical utilization involves short term UV exposure followed by a secondary moisture cure.

**Adhesion:** Primerless adhesion to most plastics, metals and typical substrates.

**Limitations:** For Maximum Shelf Life Product Must Be Frozen. Do not use product on head gaskets or fuel immersion applications. Allow to fully cure before putting

assembly into service. Ensure enough product remains between flanges to be effective in an assembly.

**Compatibility:** Fully compatible with all materials. Cannot be cure inhibited or contaminated like addition cure systems.

**Packaging:** Available in 2.8 & 5.5oz squeeze tubes, 6.25oz sem kit cartridges, 10.3 oz. cartridges, 40 lb. pails and 400 lb. drums. This product is also available in customer defined packaging upon request.

**Handling and safety:** For maximum shelf life, keep containers sealed when not in use. Keep out of the reach of children. Uncured sealant irritates eyes and skin. Refer to MSDS.

**Shelf-life:** Sealed containers guaranteed for 1 year from the ship date when stored in a cool dry area below 70°F.





# US-HS-207

## High Strength, High Temperature Silicone Adhesive Sealant

US-HS-207 is a high strength, high temperature silicone RTV engineered for applications requiring fast development of physical properties and excellent adhesion. This offers the highest temperature resistance of any acetoxy cure silicone currently available. When cured, the elastomers resist weathering, ozone, moisture, UV and high temperatures. Works well in manual and automatic dispensing equipment.

### Product Features

- Fast Room Temperature cure
- Instant Cure Capability
- Excellent unprimed adhesion to plastic, metal and glass
- Thixotropic paste
- Convenient, Heat Accelerated

### Typical Applications

- Assembly line adhesive
- Adhesive Sealant
- Form in place gaskets

### Heat Accelerated Curing

Typical utilization involves dispensing in open air and ambient humidity to result in a high strength adhesive rubber. However, cure speed can be accelerated with hot air to nearly instant cures exhibiting very fast adhesion. A one minute hot air stream exposure, followed by a one minute cool down in a humid environment, results in cured **elastomer condition exhibiting outstanding adhesion.**

### Method of Application

Dispense dressing onto gasket and flange surface. Install component and tighten fasteners to the manufacturer's torque specifications, thus sealing all surface irregularities with the fastener clamping force.

**Chemical cure system:** Acetoxy cure system

### Typical Properties

#### Uncured:

Color: Translucent Red	Viscosity, cps: 500,000	Specific Gravity: 1.14
Consistency	Working time, mins: 4	Tack Free Time, mins.: 12
Application Rate, 90 PSI, g/min: 250, 3mm orifice at 0.6 MPa		

#### Cured - Room Temperature:

Max. Operating Temp: 330°C

### Physical Properties:

Tensile Strength, PSI: 1000	Elongation, %: 850	Durometer, Shore A: 38
Peel Strength, PPI: 50	Tear Strength, PPI: 100	Lap Shear Strength, PSI: 330
Dielectric Strength, V/mil >500	Dielectric Constant: 2.8	Dissipation Factor: 0.001
Volume Resistivity: 2.0 X 10 <sup>14</sup>		
Thermal conductivity: 0.0005	Coefficient of Thermal Expansion: 20 x 10 <sup>-5</sup>	

<b>HEAT AGED 24 Hours at 330°C</b>	<b>Durometer</b>	<b>Tensile</b>
	35 (-7.5%)	772 (-22.8%)
	<b>Elongation</b>	850% (0)

**Method of Application:** Dispense sealant onto part and mate parts. Do not squeeze all of the product out of flange assembly. Allow to cure.

**Chemical cure system:** Acetoxy cure system

**Solids:** 98% solids, contains no solvents

**Adhesion:** Primerless adhesion to most plastics, metals and typical substrates.

**Limitations:** Do not use product on head gaskets, fuel or solvent immersion applications. Allow sealant to fully cure before putting assembly into service. Ensure enough product remains between flanges to be effective in an assembly.

**Packaging:** Available in , 10.3 oz. cartridges, 40 lb. pails and 400 lb. drums. This product is also available in customer defined packaging sizes, upon request.

**Handling and safety:** For maximum shelf life, keep containers sealed when not in use. Keep out of the reach of children. Uncured sealant irritates eyes and skin. Refer to MSDS.

**Shelf-life:** Sealed containers guaranteed for 1 year from the ship date when stored in a cool dry area below 70°F.

**Applicable standards:** Conforms to MIL-A-46106B Type I Group III



## US-HS-324

### High Strength, Fast Cure Silicone Adhesive Sealant

**US-HS-324** is a fast curing, high strength, acetoxy silicone RTV adhesive rubber engineered for applications requiring fast development of physical properties and excellent adhesion. This is a 1-Part silicone that when applied to the substrate allows handling of the bonded assembly within minutes. Works well in manual and automatic dispensing equipment.

#### Product Features

- Fast Room Temperature cure
- Thixotropic paste
- Excellent unprimed adhesion to metals and glass
- Temperature range -40C to +260C

**Color:** Transparent (custom colors available upon request)

#### Typical Applications

- Assembly line adhesive
- Form in place gaskets
- Adhesive sealant

#### Typical Properties

**Uncured:** Viscosity, cps: 500,000 Specific Gravity: 1.05 Consistency: thixotropic paste  
 Working time, mins 4 Tack Free Time, mins. 12  
 Application Rate, 90 PSI, g/min. 250 3mm orifice at 0.6 MPa

#### **BOTH Cured - Room Temperature:**

Tensile Strength, PSI: 325  
 Elongation, %: 325  
 Durometer, Shore A: 30  
 Dielectric Strength, V/mil: >500  
 Dielectric Constant: 2.8  
 Dissipation Factor: 0.001  
 Thermal conductivity: 0.0005

#### Method Of Application

Dispense sealant onto part and mate parts. Do not squeeze all of the product out of flange assembly. Allow to cure.

#### Heat Accelerated Curing

Typical utilization involves dispensing in open air and ambient humidity to result in a high strength adhesive rubber. However, cure speed can be accelerated with hot air to nearly instant cures exhibiting very fast adhesion. A one minute hot air stream exposure, followed by a one minute cool down in a humid environment, results in cured elastomer exhibiting outstanding adhesion.

**Packaging:** Available in 2.8 & 5.5oz squeeze tubes, 6.25oz sem kit cartridges, 10.3 oz. cartridges, 40 lb. pails and 400 lb. drums. This product is also available in customer defined packaging sizes upon request.

**Chemical cure system:** Acetoxy cure system

**Solids:** 98% solids, contains no solvents

**Service Temperature:** -45°C to +260°C

**Adhesion:** Primerless adhesion to silicone rubber parts.

**Limitations:** Allow sealant to fully cure before putting assembly into service. Ensure enough product remains between flanges to be effective in an assembly.

**Handling and safety:** For maximum shelf life, keep containers sealed when not in use. Keep out of the reach of children. Uncured sealant irritates eyes and skin. Refer to MSDS.

**Shelf-life:** Sealed containers guaranteed for 1 year from the ship date when stored in a cool dry area below 70°F.



## US-HS-327 High Strength, Fast Cure Silicone Adhesive Sealant

US-HS-327 is a fast curing, high strength, acetoxy silicone RTV adhesive rubber engineered for applications requiring fast development of physical properties and excellent adhesion. This is a 1-Part silicone that when applied to the substrate allows handling of the bonded assembly within minutes. Works well in manual and automatic dispensing equipment.

### Product Features

- Fast Room Temperature cure
- Thixotropic paste
- Excellent unprimed adhesion to metals and glass
- Temperature range -45°C to 260°C

**Color:** Transparent (custom colors available upon request)

### Typical Applications

- Assembly line adhesive
- Form in place gaskets
- Adhesive sealant

### Typical Properties

#### Uncured:

Viscosity, cps: 500,000    Specific Gravity: 1.07    Consistency : thixotropic paste  
 Working time, mins: 4    Tack Free Time, mins: 12  
 Application Rate, 90 PSI, g/min: 250 (3mm orifice at 0.6 MPa)

#### BOTH Cured - Room Temperature:

Physical Properties	Tensile Strength, PSI: 600	Elongation, %: 700
	Durometer, Shore A: 34	Dielectric Strength, V/mil: >500
	Dielectric Constant: 2.8	Dissipation Factor: 0.001
	Thermal conductivity: 0.0005	

### Method Of Application

Dispense sealant onto part and mate parts. Do not squeeze all of the product out of flange assembly. Allow to cure.

### Heat Accelerated Curing

Typical utilization involves dispensing in open air and ambient humidity to result in a high strength adhesive rubber. However, cure speed can be accelerated with hot air to nearly instant cures exhibiting very fast adhesion. A one minute hot air stream exposure, followed by a one minute cool down in a humid environment, results in cured elastomer exhibiting outstanding adhesion.

**Packaging:** Available in 2.8 & 5.5oz squeeze tubes, 6.25oz sem kit cartridges, 10.3 oz. cartridges, 40 lb. pails and 400 lb. drums. This product is also available in customer defined packaging sizes upon request.

**Chemical cure system:** Acetoxy cure system

**Solids:** 98% solids, contains no solvents

**Service Temperature:** -45°C to 260°C

**Adhesion:** Primerless adhesion to silicone rubber parts.

**Limitations:** Allow sealant to fully cure before putting assembly into service. Ensure enough product remains between flanges to be effective in an assembly.

**Handling and safety:** For maximum shelf life, keep containers sealed when not in use. Keep out of the reach of children. Uncured sealant irritates eyes and skin. Refer to MSDS.

**Shelf-life:** Sealed containers guaranteed for 1 year from the ship date when stored in a cool dry area below 70°F.



## US-HS-471 High Strength Fast Cure Aerospace Silicone Adhesive Sealant

**US-HS-471** is a fast curing, high strength, 1-part acetoxy silicone RTV adhesive rubber product engineered for highly demanding aerospace applications. Offers greatly accelerated adhesion and quicker development of physical properties as compared to conventional silicone RTV's. When cured, the elastomer resists weathering, ozone, moisture, UV and high temperatures. Works well in manual and automatic dispensing equipment.

### Product Features

- Fast Room Temperature cure
- Accelerated onset of adhesion
- Thixotropic paste
- Excellent unprimed adhesion to plastic, metal and glass
- Convenient, heat accelerated instant cure capability

### Typical Applications

- Assembly line adhesive
- Form in place gaskets
- Adhesive Sealant

**Heat Accelerated Curing:** Typical utilization involves dispensing in open air and ambient humidity to result in a high strength adhesive rubber. However, cure speed can be accelerated with hot air to nearly instant cures exhibiting very fast adhesion. A one minute hot air stream exposure, followed by a one minute cool down in a humid environment, results in cured elastomer condition exhibiting outstanding adhesion.

**Method of Application:** Dispense dressing onto gasket and flange surface. Install component and tighten fasteners to the manufacturer's torque specifications, thus sealing all surface irregularities with the fastener clamping force.

**Chemical cure system:** Oxime cure system

### Typical Properties

#### Uncured

Color: Gray	Viscosity, cps: 500,000	Specific Gravity: 1.12
Consistency: thixotropic paste	Working time, mins: 4	Tack Free Time, mins.: 12
Application Rate: 90 PSI, g/min, 3mm orifice at 0.6 MPa: 250		

#### Cured - Room Temperature

Max. Operating Temp.: 250 C

#### Physical properties:

Tensile Strength, PSI: 1000	Elongation, %: 850	Durometer, Shore A: 38
Peel Strength, PPI: 50	Tear Strength, PPI: 100	Lap Shear Strength, PSI: 330
Dielectric Strength, V/mil: >500	Dielectric Constant: 2.8	Dissipation Factor: 0.001
Volume Resistivity: $2.0 \times 10^{14}$	Thermal conductivity: 0.0005	
Coefficient of Thermal Expansion: $20 \times 10^{-5}$		

**Method of Application:** Dispense sealant onto part and mate parts. Do not squeeze all of the product out of flange assembly. Allow to cure.

**Chemical cure system:** Acetoxy cure system

**Solids:** 98% solids, contains no solvents

**Adhesion:** Primerless adhesion to most plastics, metals and typical substrates.

**Limitations:** Do not use product on head gaskets, fuel or solvent immersion applications. Allow sealant to fully cure before putting assembly into service. Ensure enough product remains between flanges to be effective in an assembly.

**Packaging:** Available in 2.8 & 5.5oz squeeze tubes, 6.25oz sem kit cartridges, 10.3 oz. cartridges, 40 lb. pails and 400 lb. drums. This product is also available in customer defined packaging sizes, upon request.

**Handling and safety:** For maximum shelf life, keep containers sealed when not in use. Keep out of the reach of children. Uncured sealant irritates eyes and skin. Refer to MSDS.

**Shelf-life:** Sealed containers guaranteed for 1 year from the ship date when stored in a cool dry area below 70°F.



# US-HS-201

## High Strength Fast Cure Silicone Adhesive Sealant

**US-HS-201** is a fast curing, high strength, 1-part acetoxy silicone RTV adhesive rubber product engineered for applications requiring fast development of physical properties and excellent adhesion. When cured, the elastomer resists weathering, ozone, moisture, UV and high temperatures. Works well in manual and automatic dispensing equipment.

### Product Features

- Fast Room Temperature cure
- Thixotropic paste
- Excellent unprimed adhesion to plastic, metal and glass
- Convenient, heat accelerated instant cure capability

### Typical Applications

- Assembly line adhesive
- Form in place gaskets
- Adhesive Sealant

### Heat Accelerated Curing

Typical utilization involves dispensing in open air and ambient humidity to result in a high strength adhesive rubber. However, cure speed can be accelerated with hot air to nearly instant cures exhibiting very fast adhesion. A one minute hot air stream exposure, followed by a one minute cool down in a humid environment, results in cured elastomer condition exhibiting outstanding adhesion.

### Method of Application

Dispense dressing onto gasket and flange surface. Install component and tighten fasteners to the manufacturer's torque specifications, thus sealing all surface irregularities with the fastener clamping force.

**Chemical cure system:** Acetoxy cure system

### Typical Properties

#### Uncured

Color: Translucent	Viscosity, cps: 500,000	Specific Gravity: 1.12
Consistency: thixotropic paste	Working time, mins: 4	Tack Free Time, mins.: 12
Application Rate: 90 PSI, 250 g/min3mm orifice at 0.6 MPa		

#### Cured - Room Temperature:

Max. Operating Temp.250°C

#### Physical properties:

Tensile Strength, PSI: 1000	Elongation, %: 850	Durometer, Shore A: 38
Peel Strength, PPI: 50	Tear Strength, PPI: 100	Lap Shear Strength, PSI: 330
Dielectric Strength, V/mil: >500	Dielectric Constant: 2.8	Dissipation Factor: 0.001
Volume Resistivity: 2.0 X 10 <sup>14</sup>	Thermal conductivity: 0.0005	
Coefficient of Thermal Expansion: 20 x 10 <sup>-5</sup>		

**Method of Application:** Dispense sealant onto part and mate parts. Do not squeeze all of the product out of flange assembly. Allow to cure.

**Chemical cure system:** Acetoxy cure system

**Solids:** 98% solids, contains no solvents

**Adhesion:** Primerless adhesion to most plastics, metals and typical substrates.

**Limitations:** Do not use product on head gaskets, fuel or solvent immersion applications. Allow sealant to fully cure before putting assembly into service. Ensure enough product remains between flanges to be effective in an assembly.

**Packaging:** Available in 2.8 & 5.5oz squeeze tubes, 6.25oz sem kit cartridges, 10.3 oz. cartridges, 40 lb. pails and 400 lb. drums. This product is also available in customer defined packaging sizes, upon request.

**Handling and safety:** For maximum shelf life, keep containers sealed when not in use. Keep out of the reach of children. Uncured sealant irritates eyes and skin. Refer to MSDS.

**Shelf-life:** Sealed containers guaranteed for 1 year from the ship date when stored in a cool dry area below 70°F.



## US-HS-9438 High Strength Neutral Cure Silicone RTV Adhesive Sealant

**US-HS-9438** is a high strength, neutral curing silicone RTV adhesive rubber. This product was developed for applications requiring fast development of physical properties and fast unprimed adhesion. This is a 1-Part silicone that allows handling of the bonded assembly within one hour of application to the substrate. When cured, the elastomer resists weathering, ozone, moisture, UV and high temperatures. Works well in manual and automatic dispensing equipment.

### Product Features

- Fast Room Temperature cure
- Thixotropic paste
- Excellent unprimed adhesion to most plastics, metal and glass
- Fast onset of adhesion
- High temperature and Exceptional oil resistance
- Non-corrosive oxime cure
- Temperature range -65 to 260C

**Color:** Silver-gray (custom colors available upon request)

### Typical Applications

- Assembly line adhesive
- Component assembly
- Industrial adhesive sealant

### Typical Properties

**Uncured**      Viscosity, cps 500,000      Specific Gravity 1.12  
 Consistency : thixotropic paste      Working time, mins. at Room Temperature: 8  
 Tack Free Time, mins. at Room Temperature: 20  
 Application Rate, 90 PSI, g/min. 300, 3mm orifice at 0.6 MPa

### **Cured - 72 Hrs. at Room Temperature:**      [Download PDF for Electrical Specifications\\*](#)

Tensile Strength, PSI: 700  
 Elongation, %: 750  
 Durometer, Shore A: 50  
 Peel Strength, PPI: 100  
 Tear Strength, PLI: 100

**Method of Application:** Dispense sealant onto part and mate parts. Do not squeeze all of the product out of flange assembly. Allow to cure.

**Curing:** Cure speed can be accelerated with increased humidity to very rapid cures exhibiting surprisingly fast adhesion. Typical utilization involves dispensing in open air with exposure to ambient humidity. This method of application will result in a room temperature cured elastomer with very high adhesive properties.

**Chemical cure system:** Oxime cure system

**Solids:** 98% solids, contains no solvents

**Adhesion:** Primerless adhesion to most plastics, metals and glass

**Service temperature:** -65 to 260C

**Limitations:** Do not use product on head gaskets, solvent or fuel immersion applications. Allow to fully cure before putting assembly into service. Ensure enough product remains between flanges to be effective in an assembly.

**Packaging:** Available in 2.8 & 5.5oz squeeze tubes, 6.25oz sem kit cartridges, 10.3 oz. cartridges, 50 lb. pails and 500 lb. drums. This product is also available in customer defined packaging sizes, upon request.

**Handling and safety:** For maximum shelf life, keep containers sealed when not in use. Keep out of the reach of children. Uncured sealant irritates eyes and skin. Refer to MSDS.

**Shelf-life:** Sealed containers guaranteed for 1 year from the ship date when stored in a cool dry area below 70°F.



## US-HS-9441 Highest Strength Neutral Cure Silicone RTV Adhesive Sealant

**US-HS-9441** is a high strength, neutral curing silicone RTV adhesive rubber. This product was developed for applications requiring fast development of physical properties and fast unprimed adhesion. This is a 1-Part silicone that allows handling of the bonded assembly within one hour of application to the substrate. When cured, the elastomer resists weathering, ozone, moisture, UV and high temperatures. Works well in manual and automatic dispensing equipment.

### Product Features

- Fast Room Temperature cure
- Thixotropic paste
- Excellent unprimed adhesion to most plastics, metal and glass
- Fast onset of adhesion
- Non-corrosive oxime cure
- Temperature range -65°C to 260°C

**Color:** Translucent (custom colors available upon request)

### Typical Applications:

- Assembly line adhesive
- Component assembly
- Industrial adhesive sealant

**Cure System:** Oxime cure system

### Typical Properties

**Uncured**                      Viscosity, cps: 500,000                      Specific Gravity: 1.11  
    Consistency : thixotropic paste                      Working time, mins. at Room Temperature: 8  
    Tack Free Time, mins. at Room Temperature: 15  
    Application Rate, 90 PSI, g/min. 300, 3mm orifice at 0.6 MPa

### **Cured 72 Hours at room temperature**                      **Download PDF for Electrical Specifications\***

Tensile Strength, PSI: 900	Elongation, %: 800
Durometer, Shore A: 50	Peel Strength, PPI: 100
Tear Strength, PLI: 100	

**Method of Application:** Dispense sealant onto part and mate parts. Do not squeeze all of the product out of flange assembly. Allow to cure.

**Curing:** Cure speed can be accelerated with increased humidity to very rapid cures exhibiting surprisingly fast adhesion. Typical utilization involves dispensing in open air with exposure to ambient humidity. This method of application will result in a room temperature cured elastomer with very high adhesive properties.

**Solids:** 98% solids, contains no solvents

**Adhesion:** Primerless adhesion to most plastics, metals and glass

**Service temperature:** -65°C to 260°C

**Limitations:** Do not use product on head gaskets, solvent or fuel immersion applications. Allow to fully cure before putting assembly into service. Ensure enough product remains between flanges to be effective in an assembly.

**Packaging:** Available in 2.8 & 5.5oz squeeze tubes, 6.25oz sem kit cartridges, 10.3 oz. cartridges, 40 lb. pails and 400 lb. drums. This product is also available in customer defined packaging sizes, upon request.

**Handling and safety:** For maximum shelf life, keep containers sealed when not in use. Keep out of the reach of children. Uncured sealant irritates eyes and skin. Refer to MSDS.

**Shelf-life:** Sealed containers guaranteed for 1 year from the ship date when stored in a cool dry area below 70°F.





## US-HS-9444 Selective Adhesion Neutral Cure Silicone RTV Adhesive Sealant

**US-HS-9444** is a selective adhesion, neutral curing silicone RTV adhesive rubber engineered for applications requiring fast development of physical properties. This is a 1-Part silicone that when applied to aluminum and other metals in an assembly, allows adhesion only to the aluminum and allows release from other substrates. Works well in manual and automatic dispensing equipment.

### Product Features

- Fast Room Temperature cure
- Thixotropic paste
- Excellent unprimed adhesion to target materials, release from others
- Fast onset of adhesion
- Non-corrosive oxime cure

**Color:** Translucent (custom colors available upon request)

### Typical Applications

- Assembly line adhesive
- Component assembly
- Adhesive Sealant

**Cure System:** Oxime cure system

### Typical Properties

<b>Uncured</b>	Viscosity, cps: 500,000	Specific Gravity: 1.12
	Consistency : thixotropic paste	Working time, mins. at Room Temperature: 8
	Tack Free Time, mins. at Room Temperature: 15	

### **Cured – 72 Hours at Room Temperature: [Download PDF for Electrical and Thermal Specifications\\*](#)**

Tensile Strength, PSI: 9000	Elongation, %: 800
Durometer, Shore A: 50	Peel Strength, PPI: 100
Tear Strength, PLI: 200	

**Method of Application:** Dispense sealant onto part and mate parts. Do not squeeze all of the product out of flange assembly. Allow to cure.

**Curing:** Cure speed can be accelerated with increased humidity to very rapid cures exhibiting surprisingly fast adhesion. Typical utilization involves dispensing in open air with exposure to ambient humidity. This method of application will result in a room temperature cured elastomer with very high adhesive properties.

**Solids:** 98% solids, contains no solvents

**Adhesion:** Primerless adhesion to target substrates

**Service temperature:** -65°C to 260°C

**Limitations:** Do not use product on head gaskets, solvent or fuel immersion applications. Allow to fully cure before putting assembly into service. Ensure enough product remains between flanges to be effective in an assembly.

**Packaging:** Available in 2.8 & 5.5oz squeeze tubes, 6.25oz sem kit cartridges, 10.3 oz. cartridges, 50 lb. pails and 500 lb. drums. This product is also available in customer defined packaging sizes, upon request.

**Handling and safety:** For maximum shelf life, keep containers sealed when not in use. Keep out of the reach of children. Uncured sealant irritates eyes and skin. Refer to MSDS.

**Shelf-life:** Sealed containers guaranteed for 1 year from the ship date when stored in a cool dry area below 70°F.





## US-SRB-201 & US-SRB-201-HE Fast Cure Silicone Rubber Parts Bonder

**US-SRB-201** is a fast curing, high strength, 1-part acetoxy silicone RTV adhesive rubber products developed for silicone rubber bonding. Both products are designed for situations requiring fast development of physical properties. **US-SRB-201-HE** is intended for applications demanding very high elongation (over 1000%). When cured, the elastomer resists weathering, ozone, moisture, UV and high temperatures. Works well in manual and automatic dispensing equipment.

### Product Features

- Fast Room Temperature cure
- Thixotropic paste
- Excellent unprimed adhesion to silicone rubber parts
- Very high elongation silicone rubber
- Convenient, heat accelerated
- instant cure capability

**Color:** Transparent (custom colors available upon request)

### Typical Applications

- Silicone rubber bonding and splicing
- Silicone component fabrication
- Prosthetic assembly and repair

### Typical Properties

#### Uncured

Viscosity, cps: 500,000      Specific Gravity: 1.12      Consistency : thixotropic paste  
Working time, mins 4      Tack Free Time, mins. 12  
Application Rate, 90 PSI, g/min. 2503mm orifice at 0.6 MPa

#### BOTH Cured - Room Temperature

#### Physical Properties

	201	201 HE
Tensile Strength, PSI	750	700
Elongation, %	750	>1000
Durometer, Shore A	40	30
Peel Strength, PPI	100	100
Tear Strength, PPI	100	100
Thermal Conductivity: 0.0005		
Coefficient of Thermal Expansion: 20 x 10 <sup>-5</sup>		

**Method Of Application:** Dispense sealant onto part and mate parts. Do not squeeze all of the product out of flange assembly. Allow to cure.

**Heat Accelerated Curing:** Typical utilization involves dispensing in open air and ambient humidity to result in a high strength adhesive rubber. However, cure speed can be accelerated with hot air to nearly instant cures exhibiting very fast adhesion. A one minute hot air stream exposure, followed by a one minute cool down in a humid environment, results in cured elastomer exhibiting outstanding adhesion.

**Packaging:** 10.3 oz. cartridges, 40 lb. pails and 400 lb. drums. This product is also available in customer defined packaging sizes upon request.

**Chemical cure system:** Acetoxy cure system

**Solids:** 98% solids, contains no solvents

**Service Temperature:** -45°C to +260°C

**Adhesion:** Primerless adhesion to silicone rubber parts.

**Limitations:** Allow sealant to fully cure before putting assembly into service. Ensure enough product remains between flanges to be effective in an assembly.

**Handling and safety:** For maximum shelf life, keep containers sealed when not in use. Keep out of the reach of children. Uncured sealant irritates eyes and skin. Refer to MSDS.

**Shelf-life:** Sealed containers guaranteed for 1 year from the ship date when stored in a cool dry area below 70°F.



# US-SP1-201

## High Elongation up to 1000% RTV Low Modulus High Strength Silicone Adhesive

**US-SP1-201** is a fast curing, high strength, 1-part acetoxy silicone RTV. This is an adhesive developed specifically for bonding to cured silicone rubber. Designed for situations requiring fast development of physical properties. When cured, the elastomer resists weathering, ozone, moisture, UV and high temperatures. Works well in manual and automatic dispensing equipment.

### Product Features

- Fast Room Temperature cure
- Thixotropic paste
- Excellent unprimed adhesion to silicone rubber parts
- Very high elongation silicone rubber
- Convenient, heat accelerated
- instant cure capability

**Color:** Transparent (custom colors available upon request)

### Typical Applications

- Silicone rubber bonding and splicing
- Silicone component fabrication
- Prosthetic assembly and repair

### Typical Properties

#### Uncured

Viscosity, cps: 500,000      Specific Gravity: 1.12      Consistency : thixotropic paste  
 Working time, mins : 4      Tack Free Time, mins. 12  
 Application Rate, 90 PSI, g/min. 250, 3mm orifice at 0.6 MPa

#### BOTH Cured - Room Temperature

#### Physical Properties

Tensile Strength, PSI: 700      Elongation, %: >1000  
 Durometer, Shore A: 30      Peel Strength, PPI: 100  
 Tear Strength, PPI: 100      Thermal Conductivity: 0.0005  
 Coefficient of Thermal Expansion: 20 x 10<sup>-5</sup>

**Method Of Application:** Dispense sealant onto part and mate parts. Do not squeeze all of the product out of flange assembly. Allow to cure.

**Heat Accelerated Curing:** Typical utilization involves dispensing in open air and ambient humidity to result in a high strength adhesive rubber. However, cure speed can be accelerated with hot air to nearly instant cures exhibiting very fast adhesion. A one minute hot air stream exposure, followed by a one minute cool down in a humid environment, results in cured elastomer exhibiting outstanding adhesion.

**Packaging:** Available in 2.8 & 5.5oz squeeze tubes, 6.25oz sem kit cartridges, 10.3 oz. cartridges, 40 lb. pails and 400 lb. drums. This product is also available in customer defined packaging sizes upon request.

**Chemical cure system:** Acetoxy cure system

**Solids:** 98% solids, contains no solvents

**Service Temperature:** -45°C to +260°C

**Adhesion:** Primerless adhesion to silicone rubber parts.

**Limitations:** Allow sealant to fully cure before putting assembly into service. Ensure enough product remains between flanges to be effective in an assembly.

**Handling and safety:** For maximum shelf life, keep containers sealed when not in use. Keep out of the reach of children. Uncured sealant irritates eyes and skin. Refer to MSDS.

**Shelf-life:** Sealed containers guaranteed for 1 year from the ship date when stored in a cool dry area below 70°F.



## US-MSK-114 Masking RTV Peelable Silicone Rubber

**US-MSK-114** is a peelable silicone RTV rubber developed for applications requiring a form fitting temporary protective cover. This is a 1-Part silicone adhesive that when applied to the substrate, cures to a pliable, removable, protective covering within a day. When cured, the elastomer resists weathering, ozone, moisture, UV and high temperatures. Works well in automatic and manual dispensing equipment.

### Product Features

- Fast Room Temperature cure
- Light paste
- Clean release from plastics, metals, and painted wood
- Non-corrosive oxime cure

**Color:** Translucent (custom colors available upon request)

### Typical Applications

- Peelable protective covering for sandblasting.
- Metal masking for plating operations
- Temporary weather stripping

### Typical Properties

#### Uncured

Viscosity, cps: 80,000                      Specific Gravity: 0.98                      Consistency : light paste  
 Working time, mins. at Room Temperature: 8  
 Tack Free Time, mins. at Room Temperature: 20  
 Application Rate, 90 PSI, g/min. >400, 3mm orifice at 0.6 MPa

#### Cured 72 Hours at Room Temperature

Tensile Strength, PSI: 100                      Elongation, % :100  
 Durometer, Shore A: 30

**Method of Application:** Dispense onto areas that require masking. Allow product to cure before using parts.

**Chemical cure system:** Oxime cure system

**Curing:** Cure speed can be accelerated with heat and increased humidity to very rapid cures. Typical utilization involves dispensing in open air and after exposure to ambient humidity, a room temperature cured, protective elastomer is formed.

**Packaging:** Available in 2.8 & 5.5oz squeeze tubes, 6.25oz sem kit cartridges, 10.3 oz. cartridges, 40 lb. pails and 55 gallon drums. This product is also available in customer defined packaging sizes upon request.

**Solids:** 98% solids, contains no solvents

**Abhesion:** Abhesion to most plastics, metals and painted wood. Offers a clean release when temporary use expires.

**Service temperature:** -65°C to +260°C

**Limitations:** Do not use product in solvent or fuel immersion applications. Allow to fully cure before putting assembly into service.

**Handling and safety:** For maximum shelf life, keep containers sealed when not in use. Keep out of the reach of children. Uncured sealant irritates eyes and skin. Refer to MSDS.

**Shelf-life:** Sealed containers guaranteed for 1 year from the ship date when stored in a cool dry area below 70 F.



## US-HTG-165

### High Temperature Sealant for Gaskets. Porosity Filler for Gaskets and Flanges

US-HTG-165 is a high temperature gasket dressing. Developed as a non-running gel sealant, this product provides high-tack properties to gaskets. This adhesive sealant fills microscopic voids between the gasket and clamping surfaces. Unlike competitive offerings, it will not lose physical properties when subjected to extreme temperatures.

#### Product Features

- Non-hardening
- High temperature >600F
- Resists engine fluids
- Non-organic
- Considered safe in California (solvent free)

**Color:** Blue (custom colors available upon request)

#### Typical Applications

- Gearbox assemblies
- Oil Pans
- Transmission Pans

#### Typical Properties

Specific Gravity: 0.90	Appearance: thixotropic gel
Odor: none	Solids: 100%
VOC's : <1	Flashpoint : 600°F

**Method of Application:** Dispense dressing onto gasket and flange surface. Install component and tighten fasteners to the manufacturer's torque specifications, thus sealing all surface irregularities with the fastener clamping force.

**Chemical cure system:** Oxime cure system

**Solids:** 98% solids , contains no solvents.

**Service temperature:** -45°C to 260°C

**Limitations:** Allow to fully cure before putting assembly into service. Ensure enough product remains between flanges to be effective in an assembly.

**Handling and safety:** For maximum shelf life, keep containers sealed when not in use. Keep out of the reach of children. Uncured sealant irritates eyes and skin. Refer to MSDS.

**Packaging:** Available in 8, 40, and 400 lb containers.

**Shelf-life:** Sealed containers guaranteed for 1 year from the ship date when stored in a cool dry area below 70°F.

**Applicable standards:** Conforms to GM 9985675 and GM low volatility requirements.



# US-HT-903

## Highest Temperature Silicone RTV Adhesive Sealant Usable to 300°C/572°F for Kilns and Exhausts

**US-HT-903** is a fast curing silicone RTV adhesive rubber developed for high temperature applications requiring fast development of physical properties and fast unprimed adhesion. This is a 1-Part silicone that when applied to the substrate allows handling of the bonded assembly within an hour. When cured, the elastomer resists weathering, ozone, moisture, UV and high temperatures. Works well in manual and automatic dispensing equipment.

### Product Features

- Fast Room Temperature cure
- Thixotropic paste
- Excellent unprimed adhesion to metals, glass and ceramics
- Very fast onset of adhesion
- Exceptional high temperature resistance
- Non-corrosive oxime cure
- Temperature range -65 to 300C

### Typical Applications

- Assembly line adhesive
- Form in place gaskets
- Adhesive Sealant

**Color:** Copper tone (Custom colors available upon request)

### Typical Properties

#### Uncured:

Viscosity, cps: 400,000      Specific Gravity: 1.28      Consistency : thixotropic paste  
 Working time, mins. at Room Temperature: 8  
 Tack Free Time, mins. at Room Temperature: 20  
 Application Rate, 90 PSI, g/min. >1000 3mm orifice at 0.6 MPa

#### Cured 72 Hours at Room Temperature

Tensile Strength, PSI: 300      Elongation, %: 350      Durometer, Shore A: 36  
 Peel Strength, PPI: 20

#### HEAT AGED 24 Hours at 300°C

Durometer: 33 (-13%)      Tensile: 186 (-38%)      Elongation: 245 (-30%)

**Method of Application:** Dispense sealant onto part and mate parts. Be sure not to squeeze all of the product out of flange assembly. Allow to cure.

**Curing:** Cure speed can be accelerated with increased humidity to very rapid cures exhibiting surprisingly fast adhesion. Typical utilization involves dispensing in open air and ambient humidity to result in a high strength adhesive rubber.

**Packaging:** Available in 2.8 & 5.5oz squeeze tubes, 6.25oz sem kit cartridges, 10.3 oz. cartridges, 50 lb. pails and 500 lb. drums. This product is also available in customer defined packaging sizes, upon request.

**Chemical cure system:** Oxime cure system

**Solids:** 98% solids, contains no solvents

**Adhesion:** Primerless adhesion to most plastics, metals and typical substrates.

**Limitations:** Do not use product on head gaskets or fuel immersion applications. Allow to fully cure before putting assembly into service. Ensure enough product remains between flanges to be effective in an assembly.

**Handling and safety:** For maximum shelf life, keep containers sealed when not in use. Keep out of the reach of children. Uncured sealant irritates eyes and skin. Refer to MSDS.

**Shelf-life:** Sealed containers guaranteed for 1 year from the ship date when stored in a cool dry area below 70 F.

**Applicable standards:** Conforms to GM 9985675 and GM low volatility requirements.



## US-SP1-903 Difficult Substrates Silicone RTV Adhesive

**US-SP1-903** is a fast curing silicone RTV adhesive rubber developed for applications requiring fast development of physical properties and fast unprimed adhesion. This is a 1-Part silicone that when applied to the substrate allows handling of the bonded assembly within an hour. When cured, the elastomer resists weathering, ozone, moisture, UV and high temperatures. Works well in manual and automatic dispensing equipment.

### Product Features

- Fast Room Temperature cure
- Thixotropic paste
- Excellent unprimed adhesion to all rubbers, metals, and most composites and plastics (including polystyrene, polycarbonate, nylon, pvc pipe)
- Rapid onset of adhesion
- High temperature resistant
- Non-corrosive oxime cure
- Temperature range -65°C to 260°C

### Typical Applications

- Industrial Bonding
- Form in place gaskets
- Adhesive Sealant

**Colors:** White (Custom colors available upon request)

### Typical Properties

#### Uncured:

Viscosity, cps: 400,000      Specific Gravity: 1.28      Consistency : thixotropic paste  
 Working time, mins. at Room Temperature: 8  
 Tack Free Time, mins. at Room Temperature: 20  
 Application Rate, 90 PSI, g/min. >1000 3mm orifice at 0.6 MPa

#### Cured – 72 Hours at Room Temperature \*Download PDF for Electrical Specifications\*

Tensile Strength, PSI 275      Elongation, % 450  
 Durometer, Shore A 35      Peel Strength, PPI 20

**Method of Application:** Dispense sealant onto part and mate parts. Be sure not to squeeze all of the product out of flange assembly. Allow to cure.

**Curing:** Cure speed can be accelerated with increased humidity to very rapid cures exhibiting surprisingly fast adhesion. Typical utilization involves dispensing in open air and ambient humidity to result in a high strength adhesive rubber.

**Chemical cure system:** Oxime cure system

**Packaging:** Available in 2.8 & 5.5oz squeeze tubes, 6.25oz sem kit cartridges, 10.3 oz. cartridges, 50 lb. pails and 500 lb. drums. This product is also available in customer defined packaging sizes, upon request.

**Solids:** 96% solids

**Adhesion:** Primerless adhesion to most plastics, metals and typical substrates.

**Limitations:** Do not use product on head gaskets or fuel immersion applications. Allow to fully cure before putting assembly into service. Ensure enough product remains between flanges to be effective in an assembly.

**Handling and safety:** For maximum shelf life, keep containers sealed when not in use. Keep out of the reach of children. Uncured sealant irritates eyes and skin. Refer to MSDS.

**Shelf-life:** Sealed containers guaranteed for 1 year from the ship date when stored in a cool dry area below 70°F.

**Applicable standards:** Conforms to GM 9985675 and GM low volatility requirements.



## US-SP-909 EPDM Rubber Silicone RTV Adhesive

**US-SP-909** is a fast curing silicone RTV adhesive rubber developed for applications requiring adhesion to EPDM (ethylene propylene diene monomer rubber). This is a 1-Part silicone that when applied to the substrate allows handling of the bonded assembly within an hour. When cured, the elastomer resists weathering, ozone, moisture, UV and high temperatures. Works well in manual and automatic dispensing equipment.

### Product Features

- Fast Room Temperature cure
- Thixotropic paste
- Excellent unprimed adhesion to EPDM rubber
- Rapid onset of adhesion
- High temperature resistant
- Non-corrosive oxime cure
- Temperature range -65°C to 260°C

### Typical Applications

- EPDM bonding
- Form in place gaskets
- Adhesive Sealant

**Colors:** White (Custom colors available upon request)

### Typical Properties

#### Uncured:

Viscosity, cps 400,000      Specific Gravity 1.28      Consistency : thixotropic paste  
 Working time, mins. at Room Temperature: 8  
 Tack Free Time, mins. at Room Temperature: 20  
 Application Rate, 90 PSI, g/min. >1000 3mm orifice at 0.6 MPa

#### Cured – 72 Hours at Room Temperature      \*Download PDF for Electrical Specifications\*

Tensile Strength, PSI: 275      Elongation, %: 450  
 Durometer, Shore A: 35      Peel Strength, PPI: 20

**Method of Application:** Dispense sealant onto part and mate parts. Be sure not to squeeze all of the product out of flange assembly. Allow to cure.

**Curing:** Cure speed can be accelerated with increased humidity to very rapid cures exhibiting surprisingly fast adhesion. Typical utilization involves dispensing in open air and ambient humidity to result in a high strength adhesive rubber.

**Chemical cure system:** Oxime cure system

**Packaging:** Adhesive is available in 10.3 oz. cartridges, 50 lb. pails and 500 lb. drums. This product is also available in customer defined packaging sizes, upon request.

**Solids:** 96% solids

**Adhesion:** Primerless adhesion to EPDM rubber

**Limitations:** Do not use product on head gaskets or fuel immersion applications. Allow to fully cure before putting assembly into service. Ensure enough product remains between flanges to be effective in an assembly.

**Handling and safety:** For maximum shelf life, keep containers sealed when not in use. Keep out of the reach of children. Uncured sealant irritates eyes and skin. Refer to MSDS.

**Shelf-life:** Sealed containers guaranteed for 1 year from the ship date when stored in a cool dry area below 70°F.

**Applicable standards:** Conforms to GM 9985675 and GM low volatility requirements.





## US-SP-5403

### Radiator and Charged Air Cooler Sealant Coating Liquid Silicone RTV

**US-SP-5403** is a fast curing silicone RTV adhesive rubber developed for radiator sealing applications that require fast development of physical properties and excellent adhesion. This is a two part, 1:1 mix ratio silicone that when mixed and applied to the substrate allows handling of the coated radiator assembly within minutes. When cured the elastomer resists weathering, ozone, moisture, UV and high temperatures. Works well in static mix dispensing equipment.

#### Product Features

- Highest OAT Fluid Resistance
- Fast deep section cure
- Self leveling RTV
- Neutral cure
- Excellent unprimed adhesion to metal radiator assemblies
- Convenient 1:1 mix ratio
- Temperature range -65 to 260C
- Long term high temperature stability in the field

#### Typical Applications

Adhesive sealing of metal parts  
 Assembly line coating  
 Radiator and charged air cooler adhesive sealer coating

#### Typical Properties

##### Uncured

	Part A	Part B	Mix
Color	Gray	White	Silver
Viscosity, cps	10,000	10,000	10,000
Specific Gravity	1.25	1.25	1.25

Consistency mixed: fast gelling liquid      Working time, mins at Room Temperature: <10  
 Tack Free Time, mins. at Room Temperature: 15

##### Cured 72 Hrs at Room Temperature

Hardness, Shore A:	30 minutes: 15	24 hours: 25
Tensile Strength, PSI 150	Elongation, % 200	
Peel Strength, PPI 40	Lap Shear Strength, PSI 100	
Thermal conductivity 0.0005	Coefficient of Thermal Expansion 20 x 10 <sup>-5</sup>	
Volume Resistivity: 2.0 X 10 <sup>14</sup>		

**Mixing Instructions:** The preferred method of mixing and application is through a static mixer at a 1:1 mix ratio by volume. The substrates should be held in place for 10 minutes while the adhesive is curing.

**Depth of cure vs time:** Very firm deep section cures are formed in 15 minutes. Ultimate cured properties are found in 24 hours.

**Packaging:** Available in 18 lb. kits, 90 lb. kits and 1000 lb. kits. This product is also available in customer defined packaging sizes, upon request.

**Solids:** 98% solids, contains no solvents

**Adhesion:** Primerless adhesion to most plastics, metals and typical substrates.

**Service temperature:** -65C to +260C continuous

**Limitations:** Allow to fully cure before putting assembly into service.

**Handling and safety:** For maximum shelf life, keep containers sealed when not in use. Keep out of the reach of children. Uncured sealant irritates eyes and skin. Refer to MSDS.

**Shelf-life:** Sealed containers guaranteed for 6 months from the ship date when stored in a cool dry area below 70°F.

**Applicable standards:** Conforms to GM low volatility requirements.





## US-SP-9003 Sound Dampening Silicone Rubber Undercoating

**US-SP-9003** is a fast cure silicone RTV rubber developed for spray undercoating of passenger vehicles, trucks and heavy equipment. This is a 1-Part silicone that when cured offers sound dampening properties in a fireproof rubber coating. This product is superior to petroleum / asphalt based undercoatings in both abrasion and fire resistance. Works well in manual and automatic spraying equipment.

### Product Features

- Fireproof
- Fast room temperature cure
- Exceptional abrasion resistance
- Sprayable
- Excellent adhesion to metals and composite substrates
- Temperature range -40 to 260C

**Color:** Black

### Typical Applications

- Vehicle undercoating
- Aircraft interior NVH reduction
- Vehicle interior sound dampening

### Typical Properties

#### Uncured

Viscosity, cps: 200,000  
Consistency: thick liquid

Specific Gravity: 1.12  
Working time, mins. at Room Temperature: 20

#### Cured - Room Temperature

Tensile Strength, PSI: 300  
Elongation, %: 260  
Durometer, Shore A: 38  
Peel Strength, PPI: 40

### ONR TEST RESULTS

**SOUND DAMPENING:** SAE J1400 – Airborne sound barrier test 0.020 thick: 43db

**FIRE RESISTANCE:** MIL-PRF-24596 0.020: pass

**CHIP RESISTANCE:** ASTM D3170: pass

**ABRASION/EROSION:** ASTM D3359: pass

**Method of Application:** Apply two coats of 25mils. Allow to cure 24 hours prior to use.

**Chemical cure system:** Condensation cure system

**Solids:** >50% solids, contains no VOC solvents

**Service temperature:** -40 to 260C

**Limitations:** Do not use product in a fuel or solvent immersion application. Allow to fully cure before putting assembly into service.

**Handling and safety:** For maximum shelf life, keep containers sealed when not in use. Keep out of the reach of children. Uncured sealant irritates eyes and skin. Refer to MSDS.

**Shelf-life:** Sealed containers guaranteed for 1 year from the ship date when stored in a cool dry area below 70°F.



# US-SP-9018

## Thixotropic Deep Section Cure Silicone Adhesive Paste

**US-SP-9018** is a fast curing, thixotropic adhesive silicone RTV. This is a 2-part RTV that when mixed, applied and cured, results in a silicone adhesive sealant rubber to be formed within 10 minutes. When cured, the elastomer resists weathering, ozone, moisture, UV and high temperatures.

### Product Features

- Fast deep section, neutral cure
- Thixotropic paste
- Excellent adhesion and conformation to plastic, metal and glass parts
- Self priming adhesive sealant

### Typical Applications

- Large bonding applications
- Fixturing adhesive
- Deep section cure adhesive

**Colors:** Translucent (custom colors available upon request)

**Service temperature:** -45°C to 250°C continuous

### Typical Properties

#### Uncured:

Viscosity, cps 90,000                      Specific Gravity 1.08  
 Consistency: Thixotropic paste          Working time at Room Temperature: 120 minutes  
 Cure Time at 150 C: 10 minutes

#### Cured 10 minutes at 150C: - [\\*Download PDF for Electrical Specifications\\*](#)

150 C 10 minutes  
 Hardness, Shore A 24  
 Tensile, PSI 500  
 Elongation, % 450  
 Tear Strength, PPI 100  
 Peel Strength, PPI 100

### CURE SPEED OPTIONS

	Standard	Fast	Very Fast
WORK TIME at Room Temperature	>120min	20min	2min
CURE TIME at Room Temperature	24hrs	1.5hrs	15mins

**Mixing Instructions:** The preferred method of application is robotically through a static mixer.

**Handling precautions:** This is a Platinum Cure system product. The catalyst can be deactivated by exposure to sulfur containing compounds like thiols, sulfides, sulfates, organic rubber containing sulfur, nitrogen containing compounds like amines, amides, imides, azides, tin metals or compounds, or tin cured RTV's.

**Depth of cure vs time:** Very firm deep section cures are formed with heat in 15 minutes. Ultimate cured properties are found in 24 hours.

**Chemical Cure System:** Addition Cure System

**Packaging:** Available in 2.8 & 5.5oz squeeze tubes, 6.25oz sem kit cartridges, 400 ml. dual syringes, 8 lb., 40 lb. and 400 lb. kits. This product is also available in customer defined packaging sizes, upon request.

**Solids:** >99% solids, contains no solvents

**Adhesion:** Primerless adhesion to most plastics, metals and typical substrates.

**Limitations:** Do not use product on automotive head gaskets or fuel immersion applications. Allow to fully cure before putting assembly into service. Ensure enough product remains between flanges or parts to be bonded to be effective in an assembly.

**Handling and safety:** For maximum shelf life, keep containers sealed when not in use. Keep out of the reach of children. Uncured sealant can irritate eyes and skin. Refer to MSDS.

**Shelf-life:** Sealed containers guaranteed for 1 year from the ship date when stored in a cool dry area below 70 F.



## US-SP-1794 Heavy Bodied Automotive Silicone RTV Gasket Maker

**US-SP-1794** is a fast curing, heavy bodied silicone RTV adhesive rubber. This product was developed for applications requiring fast development of physical properties and fast unprimed adhesion. This is a 1-Part silicone that allows handling of the bonded assembly within one hour of application to the substrate. When cured, the elastomer resists typical automotive fluids and high temperatures. Works well in manual and automatic dispensing equipment.

### Product Features

- Fast Room Temperature cure
- Thixotropic, heavy bodied paste
- Excellent unprimed adhesion to most plastics, metal and glass
- Non-corrosive oxime cure
- Rapid onset of adhesion
- High temperature resistance
- Temperature range -65 to 260C

**Color:** Black (custom colors available upon request)

### Typical Applications

- Form in place gaskets
- Adhesive Sealant
- Automotive assembly and MRO

**Chemical cure system:** Oxime cure system

### Typical Properties

#### Uncured

Viscosity, cps: 700,000    Specific Gravity: 1.32    Consistency : thixotropic paste  
Working time, in minutes, at Room Temperature: 5  
Tack Free Time, in minutes, at Room Temperature: 10

#### Cured 24 Hours at Room Temperature

Tensile Strength, PSI: >250    Elongation, %: >350  
Durometer, Shore A: 32    Peel Strength, PPI: 30    Tear Strength, PLI: 30

**Method of Application:** Dispense sealant onto part and mate parts. Do not squeeze all the product out of flange assembly. Allow to cure.

**Curing:** Cure speed can be accelerated with increased humidity to very rapid cures exhibiting surprisingly fast adhesion. Typical utilization involves dispensing in open air with exposure to ambient humidity. This method of application will result in a room temperature cured elastomer with very high adhesive properties.

**Solids:** 98% solids, contains no solvents

**Adhesion:** Primerless adhesion to most plastics, metals and glass

**Service temperature:** -65°C to 260°C

**Limitations:** Do not use product on head gaskets or fuel immersion applications. Allow to fully cure before putting assembly into service. Ensure enough product remains between flanges to be effective in an assembly.

**Packaging:** Available in 2.8 & 5.5oz squeeze tubes, 6.25oz sem kit cartridges, 10.3 oz. cartridges, 50 lb. pails and 500 lb. drums. This product is also available in customer defined packaging sizes, upon request.

**Handling and safety:** For maximum shelf life, keep containers sealed when not in use. Keep out of the reach of children. Uncured sealant irritates eyes and skin. Refer to MSDS.

### Applicable standards and O.E.M. part number interchange

- Chrysler - 4206070, 4318025
- Ford - D6AZ-19562-B, E8AZ-19562-A, WSE-M46320-A2
- G.M. - 9985675, 1052751, 1052917, 12345739

**Shelf-life:** Sealed containers guaranteed for 1 year from the ship date when stored in a cool dry area below 70°F.





## US-SP-17700 Heavy Bodied Automotive Silicone RTV Gasket Maker

**US-SP-17700** is a fast curing, heavy bodied silicone RTV adhesive rubber. This product was developed for applications requiring fast development of physical properties and fast unprimed adhesion. This is a 1-Part silicone that allows handling of the bonded assembly within one hour of application to the substrate. When cured, the elastomer resists typical automotive fluids and high temperatures. Works well in manual and automatic dispensing equipment.

### Product Features

- Fast Room Temperature cure
- Thixotropic, heavy bodied paste
- Excellent unprimed adhesion to most plastics, metal and glass
- Non-corrosive oxime cure
- Rapid onset of adhesion
- High temperature resistance
- Temperature range -65°C to 550°F

**Color:** Black (custom colors available upon request)

### Typical Applications

- Form in place gaskets
- Adhesive Sealant
- Automotive assembly and MRO

**Chemical cure system:** Oxime cure system

### Typical Properties

#### Uncured

Viscosity, cps 800,000	Specific Gravity 1.33
Consistency : thixotropic paste	
Working time, mins. at Room Temperature: 5	
Tack Free Time, mins. at Room Temperature: 10	

#### Cured 24 Hours at Room Temperature

Tensile Strength, PSI >250	Elongation, % >250
Durometer, Shore A 40	Peel Strength, PPI >50
Tear Strength, PLI >50	

**Method of Application:** Dispense sealant onto part and mate parts. Do not squeeze all the product out of flange assembly. Allow to cure.

**Curing:** Cure speed can be accelerated with increased humidity to very rapid cures exhibiting surprisingly fast adhesion. Typical utilization involves dispensing in open air with exposure to ambient humidity. This method of application will result in a room temperature cured elastomer with very high adhesive properties.

**Solids:** 98% solids, contains no solvents

**Adhesion:** Primerless adhesion to most plastics, metals and glass

**Service temperature:** -65°C to 550°F

**Limitations:** Do not use product on head gaskets or fuel immersion applications. Allow to fully cure before putting assembly into service. Ensure enough product remains between flanges to be effective in an assembly.

**Packaging:** Available in 2.8 & 5.5oz squeeze tubes, 6.25oz sem kit cartridges, 10.3 oz. cartridges, 50 lb. pails and 500 lb. drums. This product is also available in customer defined packaging sizes, upon request.

**Handling and safety:** For maximum shelf life, keep containers sealed when not in use. Keep out of the reach of children. Uncured sealant irritates eyes and skin. Refer to MSDS.

### Applicable Standards and O.E.M. part number interchange

- |   |   |
|---|---|
| • Chrysler - 4883971 and GF-44-A                      | • Daewoo - PS9120016                    |
| • Ford - WSE-M4G-323-A6                               | • G.M. - 1237849, 998-5990, • 123446286 |
| • Land Rover – LRNA-25223                             | • Mercedes Benz – A0029897320           |
| • Mitsubishi – 3M8663, 3M8672, 3M8678, 3M8679, 3M8661 |   |
| • Saturn – 2109581                                    |   |

**Shelf-life:** Sealed containers guaranteed for 1 year from the ship date when stored in a cool dry area below 70 F.





# US-SL-9018

## Self Leveling Deep Section Cure Adhesive Liquid

**US-SL-9018** is a fast curing, self-leveling adhesive silicone RTV. This is a 2-part RTV that when mixed, applied and cured, results in a silicone adhesive sealant rubber to be formed within 10 minutes. When cured, the elastomer resists weathering, ozone, moisture, UV and high temperatures.

**Product Features**

- Fast deep section, neutral cure
- Self-leveling liquid
- Excellent adhesion and conformation to plastic, metal and glass parts
- Self priming adhesive sealant

**Typical Applications**

- Coatings applications
- Encapsulating adhesive
- Deep section cure adhesive

**Color:** Translucent (custom colors available upon request)

**Service temperature:** -45°C to +250°C continuous

**Typical Properties**

**Uncured:**

Viscosity, cps 22,000  
 Specific Gravity: 1.03  
 Consistency: self-leveling liquid  
 Working time at Room Temperature: 120 minutes  
 Cure Time at 150 C: 10 minutes

**Cured 10 Minutes at 150°C [Download PDF for Electrical Specifications\\*](#)**

Hardness, Shore A 30  
 Tensile, PSI 200  
 Elongation, % 250

**CURE SPEED OPTIONS**

	Standard	Fast	Very Fast
WORK TIME at Room Temperature	>120min	20min	2min
CURE TIME at Room Temperature	24hrs	1.5hrs	15mins

**Mixing Instructions:** The preferred method of application is robotically through a static mixer. The RTV should be held level while the silicone is curing.

**Handling precautions:** This is a Platinum Cure system product. The catalyst can be deactivated by exposure to sulfur containing compounds like thiols, sulfides, sulfates, organic rubber containing sulfur, nitrogen containing compounds like amines, amides, imides, azides, tin metals or compounds, or tin cured RTV's.

**Depth of cure vs time :** Very firm deep section cures are formed with heat in 15 minutes. Ultimate cured properties are found in 24 hours.

**Chemical Cure System:** Addition Cure System

**Packaging:** Available in 2.8 & 5.5oz squeeze tubes, 6.25oz sem kit cartridges, 400 ml. dual syringes, 8 lb.,40 lb. and 400 lb. kits. This product is also available in customer defined packaging sizes, upon request.

**Solids:** >99% solids, contains no solvents

**Adhesion:** Primerless adhesion to most plastics, metals and typical substrates.

**Limitations:** Do not use product on automotive head gaskets or fuel immersion applications. Allow to fully cure before putting assembly into service. Ensure enough product remains between flanges or parts to be bonded to be effective in an assembly.

**Handling and Safety:** For maximum shelf life, keep containers sealed when not in use. Keep out of the reach of children. Uncured sealant can irritate eyes and skin. Refer to MSDS.

**Shelf-life:** Sealed containers guaranteed for 1 year from the ship date when stored in a cool dry area below 70°F.





## US-SL-19992

### One Part Self Leveling Conformal Coating RTV Adhesive Sealant

US-SL-19992 is a 1-part silicone RTV developed for conformal coating applications. It offers unprimed adhesion to metals and many plastics. High flexibility is combined with an oxime cure to result in a durable silicone conformal coating.

#### Product Features

- Low Viscosity
- Neutral Cure
- Fast room temperature cure
- Self-leveling liquid RTV
- Fluoresces under UV light to enable coating inspection
- Adhesion to metals and many plastics

#### Product Applications

- Coating electronic assemblies
- Industrial coating and sealing
- Thin section potting and encapsulation

**Color:** Clear (custom colors available upon request)

**Service temperature:** -65°C to 250°C

#### Typical Properties

**Uncured**                      Specific Gravity 0.98                      Viscosity 100 cps.  
    Tack Free Time at Room Temperature 20 minutes

**Cured 24 Hours at Room Temperature**    [Download PDF for Electrical Specifications\\*](#)

Durometer, Shore A 10

**Method of Application:** Apply by: pouring, dipping, brushing, flow-coat, spin-on or spraying.

**Chemical cure system:** Oxime cure system

**Solids:** 98% solids, contains no solvents

**Curing:** Typical utilization involves dispensing in open air and ambient humidity to result in a high strength adhesive rubber. Cure speed can be accelerated with increased humidity to very rapid cures exhibiting surprisingly fast adhesion.

**Adhesion:** Primerless adhesion to most plastics, metals and typical substrates.

**Limitations:** Do not use product in fuel immersion applications. Allow to fully cure before putting assembly into service.

**Packaging:** Available in 8 pound gallon cans, 40 lb. pails and 400 lb. drums. This product is also available in customer defined packaging upon request.

**Handling and Safety:** For maximum shelf life, keep containers sealed when not in use. Keep out of the reach of children. Uncured sealant can irritate eyes and skin. Refer to MSDS.

**Compatibility:** Fully compatible with all materials. Cannot be cure inhibited or contaminated like addition cure systems.

**Shelf-life:** Sealed containers guaranteed for 1 year from the ship date when stored in a cool dry area below 70°F.



## US-SL-27561

### One Part Self Leveling Conformal Coating RTV Adhesive Sealant

**US-SL-27561** is a 1-part silicone RTV developed for conformal coating applications. It offers unprimed adhesion to metals and many plastics. High flexibility is combined with an oxime cure to result in a durable silicone conformal coating.

#### Product Features

- Low Viscosity
- Neutral Cure
- Fast room temperature cure
- Self-leveling liquid RTV
- Fluoresces under UV light to enable coating inspection
- Adhesion to metals and many plastics

#### Product Applications

- Coating electronic assemblies
- Industrial coating and sealing
- Thin section potting and encapsulation

**Color:** Clear (custom colors available upon request)

**Service temperature:** -65°C to 250°C

#### Typical Properties

##### **Uncured**

Specific Gravity 0.98

Viscosity 1,000 cps.

Tack Free Time at Room Temperature 20 minutes

##### **Cured 24 Hours at Room Temperature** [Download PDF for Electrical Specifications\\*](#)

Durometer, Shore A 17

**Method of Application:** Apply by: pouring, dipping, brushing, flow-coat, spin-on or spraying.

**Chemical cure system:** Oxime cure system

**Solids:** 98% solids, contains no solvents

**Curing:** Typical utilization involves dispensing in open air and ambient humidity to result in a high strength adhesive rubber.

Cure speed can be accelerated with increased humidity to very rapid cures exhibiting surprisingly fast adhesion.

**Adhesion:** Primerless adhesion to most plastics, metals and typical substrates.

**Limitations:** Do not use product in fuel immersion applications. Allow to fully cure before putting assembly into service.

**Packaging:** Available in 8 pound gallon cans, 40 lb. pails and 400 lb. drums. This product is also available in customer defined packaging upon request.

**Handling and Safety:** For maximum shelf life, keep containers sealed when not in use. Keep out of the reach of children. Uncured sealant can irritate eyes and skin. Refer to MSDS.

**Compatibility:** Fully compatible with all materials. Cannot be cure inhibited or contaminated like addition cure systems.

**Shelf-life:** Sealed containers guaranteed for 1 year from the ship date when stored in a cool dry area below 70°F.



## US-SL-15003 Self-Leveling Acetoxy Cure Silicone RTV Liquid Adhesive Coating

US-SL-15003 is a 1-part silicone RTV developed for coating applications. It offers unprimed adhesion to many metals and plastics. When cured, results in a very flexible and durable silicone adhesive coating. The elastomer resists weathering, ozone, moisture, UV and high temperatures.

### Product Features

- Fast Room Temperature cure
- Self-leveling liquid RTV
- Adhesion to metals and many plastics
- Temperature range -65°C to +250°C

**Color:** Translucent (custom colors available upon request)

### Typical Applications

- Coating assemblies
- Industrial sealing
- Thin section potting & encapsulation

### Typical Properties

#### Uncured

Viscosity, cps 30,000-40,000      Specific Gravity 1.03      Consistency : self leveling liquid  
Working time, mins. at Room Temperature: 8  
Tack Free Time, mins. at Room Temperature: 14

#### Cured 72 Hours at Room Temperature

Tensile Strength, PSI 325      Elongation, % 325      Durometer, Shore A 25  
Peel Strength, PPI 40

**Method of Application:** Dip or dispense coating onto assembly, allow product to cure.

**Chemical cure system:** Acetoxy cure system

**Curing:** Cure speed can be accelerated with increased humidity to very rapid cures exhibiting surprisingly fast adhesion. Typical utilization involves dispensing in open air and ambient humidity to result in a durable adhesive rubber coating.

**Packaging:** Available in 2.8 & 5.5oz squeeze tubes, 6.25oz sem kit cartridges, 10.3 oz. cartridges, 40 lb. pails and 400 lb. drums. This product is also available in customer defined packaging sizes, upon request.

**Solids:** 98% solids, contains no solvents

**Adhesion:** Primerless adhesion to most plastics, metals and typical substrates.

**Service temperature:** -65°C to +250°C

**Limitations:** Do not use product on head gaskets, or in solvent or fuel immersion applications. Allow to fully cure before putting assembly into service. Insure enough product remains between flanges to be effective in an assembly.

**Handling and safety:** For maximum shelf life, keep containers sealed when not in use. Keep out of the reach of children. Uncured sealant irritates eyes and skin. Refer to MSDS.

**Shelf-life:** Sealed containers guaranteed for 1 year from the ship date when stored in a cool dry area below 70°F.  
Applicable standards  
Conforms to: MIL-A-46106B Type II Group I



## US-SL-18003

### Self-Leveling Neutral Cure Liquid Silicone RTV Adhesive Coating

**US-SL-18003** is a 1-part silicone RTV developed for coating applications. It offers unprimed adhesion to many metals and plastics. When cured, results in a very durable silicone adhesive coating. The elastomer resists weathering, ozone, moisture, UV and high temperature.

**Product Features.** Fast Room Temperature cure. Self-leveling liquid RTV. Neutral cure. Adhesion to metals and many plastics. Temperature range -65°C to +250°C

**Color:** Translucent. (custom colors available upon request)

**Typical Applications.** Coating assemblies. Industrial sealing. Thin section potting & encapsulation

#### Typical Properties

##### Uncured

Viscosity, cps 30,000-40,000

Specific Gravity 1.03

Consistency : self leveling liquid

Working time, mins. at Room Temperature: 10

Tack Free Time, mins. at Room Temperature: 20

##### Cured 72 Hours at Room Temperature [Download PDF for Electrical Specifications\\*](#)

Tensile Strength, PSI 300

Elongation, % 300

Durometer, Shore A 25

Peel Strength, PPI 40

**Method of Application.** Dip or dispense coating onto assembly, allow to cure.

**Chemical cure system.** Oxime cure system

**Curing.** Cure speed can be accelerated with increased humidity to very rapid cures exhibiting surprisingly fast adhesion. Typical utilization involves dispensing in open air and ambient humidity to result in a durable adhesive rubber coating.

**Packaging.** Available in 2.8 & 5.5oz squeeze tubes, 6.25oz sem kit cartridges, 10.3 oz. cartridges, 8 lb. containers, 40 lb. pails and 440 lb. drums. This product is also available in customer defined packaging sizes, upon request.

**Solids:** 98% solids, contains no solvents

**Adhesion:** Primerless adhesion to most plastics, metals and typical substrates.

**Service temperature.** -65°C to +250°C

**Limitations.** Do not use product in a fuel or solvent immersion application. Allow to fully cure before putting assembly into service.

**Handling and safety.** For maximum shelf life, keep containers sealed when not in use. Keep out of the reach of children. Uncured sealant irritates eyes and skin. Refer to MSDS.

**Shelf-life.** Sealed containers guaranteed for 1 year from the ship date when stored in a cool dry area below 70°F.