Electrically Conductive

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.