Silicone Conformal Coatings

Silicone Conformal Coatings are used to protect rigid or flexible printed circuit boards from humidity, contamination and vibration/shock. These conformal coatings are low viscosity, either 1 or 2 part mix elastomers using either thermal or moisture cure systems. All of these coatings have excellent dielectric properties and withstand temperature rages of -60°C to 240°C (-76°F to +464°F).

Products

Product	Characteristics	Page
US-SCC-125	Heat Cure: 1 Part Silicone Conformal Coating. 125cps	88
US-SCC-192	1 part Silicone Anti-Graffiti Coating	
US-SCC-230	Heat Cure: 1 Part Silicone Conformal Coating. 230cps	89
US-SCC-600	Heat Cure: 1 Part Silicone Conformal Coating. 600cps	90
US-SCC-900	Heat Cure: 1 Part Silicone Conformal Coating. 900cps	91
US-SCC-2500	UV / Dual Cure: 1 Part Silicone Conformal Coating. 2500cps	92
US-SCC-428-15879	UV / Dual Cure: 1 Part Silicone Conformal Coating. 400 - 800cps	93
US-SCC-628	UV / Dual Cure: 1 Part Silicone Conformal Coating. 6000 - 8000cps	94
US-SCC-19992 (was part number US-SCC-100)	1 Part RTV Conformal Coating. 100cps (not suitable for deep section cure)	95
US-SCC-600QC	1 Part RTV Quick Cure Silicone Conformal Coating 600cps (not suitable for deep section cure)	96
US-SCC-600SC	1 Part RTV Silicone Conformal Coating 600cps (not suitable for deep section cure)	97
US-SCC-100010	1 Part RTV Silicone Conformal Coating 1000cps Shore A 10 (not suitable for deep section cure)	98
US-SCC-100017	1 Part RTV Silicone Conformal Coating 1000cps Shore A 17 (not suitable for deep section cure)	99
US-SCC-10000	1 Part RTV Conformal Coating 10000cps (not suitable for deep section cure)	100
US-SCC-3040	1 Part RTV Conformal Coating 30000 - 40000cps (not suitable for deep section cure)	101
US-SCC-24003	Translucent self-leveling acetoxy cure RTV (RTV118 & DC734 & Wacker E-43 offset)	102
US-SCC-24003W	White self-leveling acetoxy cure RTV (RTV112 & DC734 offset)	

US-SCC-125

US-SCC-125 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 primerless adhesion to plastics, metals and typical substrates.

Service temperature: -65 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-SCC-192
Clear Anti-Graffiti Coating

US-SCC-192 is a 1-part silicone clear coat fast drying with long life and low surface energy paint used where anti-graffiti properties are needed.

Product Features

- 72 hour cure @ 72F.
- Clear.
- Very low surface energy to prevent paints and marker ink from adhering – allows for easy wash off.
- Adhesion to metals, masonry and many plastics.
- Temperature range -65 to +250C.

Color: clear

Typical Applications

- Embankment walls and municipal buildings
- Rail and subway infrastructure

Typical Properties

Uncured

Viscosity, cps: 1000
Specific Gravity: 0.90
Consistency: self leveling liquid

Cured – 72 Hours at Room Temperature

Method of Application: Spray, Brush or roller; allow to cure.

Chemical cure system: Oxime cure system

Curing: 72 hours or faster in higher humidity conditions.

Packaging: Available in 1 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 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.

US-SCC-230

US-SCC-230 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
- 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 primerless 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-SCC-600

US-SCC-600 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
- 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 primerless 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-SCC-900

US-SCC-900 is a heat curing silicone RTV developed for encapsulation and conformal coating applications. This is a 1-Part silicone that when heated to 150°C, cures in less than 30 minutes forming a tough silicone rubber.

Product Features

- Transparent encapsulant
- Addition cure liquid
- Excellent moldability and conformation to plastic, metal and glass parts
- Convenient 1-Part system
- Fluoresces under UV light for inspection

Typical Applications

- Electronic component vibration
- Shock and thermal insulation
- Dust and moisture protection
- Dielectric and insulation

Chemical cure system: Platinum catalyzed, addition cure system.

Typical Properties

Uncured

Color: Water white, clear	Viscosity, cps: 900	Specific Gravity: 0.90
Consistency: Self-leveling, light liquid	Pot-life at Room Temperature: 12 months	
Cure time at 150°C: < 30 minutes	Odor: none	

Cured

Shore 00: 60	Tensile: 100 PSI	Elongation: 200%
Byproducts: none	Shrinkage: none	Corrosivity: none
Temperature range: -65°C to 250°C		

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

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: -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 2.8 & 5.5oz squeeze tubes, 6.25oz sem kit cartridges, a 25 ml syringe, one pound cans, 8 lb. gallon containers and 40 lb. 5 gallon pails. 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 GM low volatility requirements.

US-SCC-2500

US-SCC-2500 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

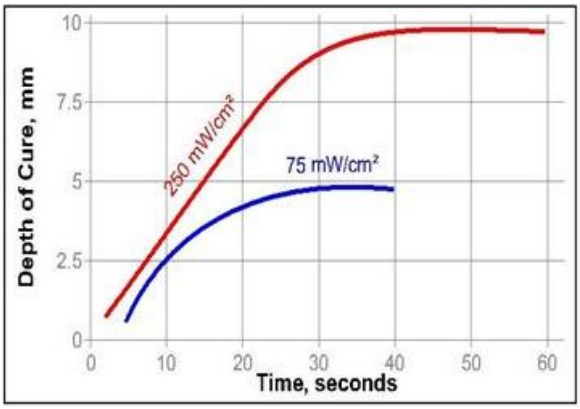
Cured 24 Hours at Room Temperature

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-SCC-428-15879

US-SCC-428 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

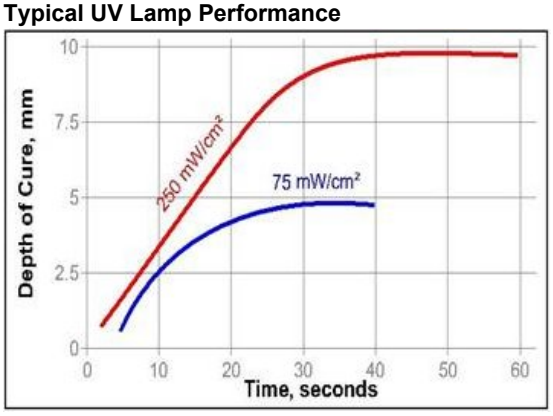
Uncured Viscosity: 400-800 cps. Specific Gravity: 1.00 Consistency: liquid

Cured 24 Hours 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-SCC-628K

US-SCC-628K 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 6,000 to 8,000 cps. Specific Gravity 1.02 Consistency: liquid

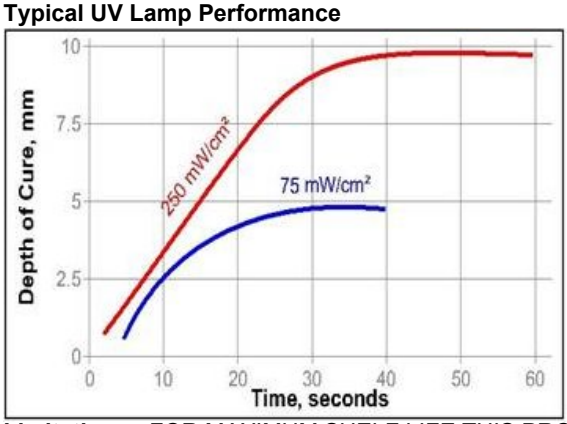
Cured 24 Hours at Room Temperature

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-SCC-19992 (replaces US-SCC-100)
Conformal Coating RTV

US-SCC-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

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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-SCC-600QC

US-SCC-600QC is a 1-part silicone RTV developed for conformal coating applications. It offers unprimed adhesion to many metals and plastics. High flexibility is combined with an oxime cure system to result in a durable silicone conformal coating.

Product Features

- Fast Room Temperature cure
- Faster heat accelerated cure
- Self- leveling liquid RTV
- Neutral cure
- Fluoresces under UV light to enable coating inspection
- Adhesion to metals and many plastics
- Temperature range -65°C to +250°C

Color: Translucent (custom colors available upon request)

Typical Applications

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

Typical Properties

Uncured

Viscosity, cps: 600 Specific Gravity: .98 Consistency : self leveling liquid
Skin over at Room Temperature: 4 minutes Tack Free Time,. at Room Temperature: 20 minutes
Skin Over at 150C: <1 minutes Tack Free at 150C: <3 minutes

Cured - Room Temperature Download PDF for Electrical Specifications*

Durometer, Shore A: 30
Dielectric Strength KV/mm: 20
Dielectric constant: 3.1
Dissipation Factor: .01
Volume Resistivity: 4 x 10^15

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

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 8 lb. containers, 40 lb. bladder bags and 400 lb. drums. This product is also available in customer defined packaging sizes, upon request.

Solids: 80% solids

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.

US-SCC-600SC

Self-Leveling Silicone RTV Adhesive Coating

US-SCC-600SC is a 1-part silicone RTV developed for conformal coating and seam filling 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

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

Color: clear in thin films (custom colors available upon request)

Typical Applications

- Conformal Coating
- Industrial Sealing
- Thin Section Potting & Encapsulation

Typical Properties

Uncured

Viscosity, cps 500 Specific Gravity .98
Consistency : self leveling liquid
Working time, mins. at Room Temperature: 5
Tack Free Time, mins. at 150C: 30 seconds

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, dispense or spray 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.

US-SCC-100010
Conformal Coating RTV

US-SCC-100010 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 +260°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
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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-SCC-100017
Conformal Coating RTV

US-SCC-10017 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-SCC-10000

Self-Leveling Silicone RTV Conformal Coating

US-SCC-10000 is a 1-part silicone RTV developed for conformal coating applications. It offers unprimed adhesion to many metals and plastics. Combines high flexibility with a neutral oxime cure system to provide a durable silicone adhesive coating.

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: Clear (custom colors available upon request)

Typical Applications

- Conformal coating of assemblies
- Industrial sealing
- Thin section potting & encapsulation

Typical Properties

Uncured

Viscosity, cps: 10,000
Specific Gravity: 1.03
Consistency : low viscosity 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: 200
Elongation, %: 300
Durometer, Shore A: 25

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 conformal coating.

Packaging: Available in 8 lb. containers, 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 metals and many plastics

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.

US-SCC-3040

Self-Leveling Silicone RTV Adhesive Coating

US-SCC-3040 is a 1-part silicone RTV developed for coating applications. Offers unprimed adhesion to many metals and plastics. When cured, it 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 to 250C

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, minutes at Room Temperature: 10
Tack Free Time, minutes at Room Temperature: 20

Cured – 72 Hours at Room Temperature

Tensile Strength, PSI: 300
Elongation, %: 300
Peel Strength, PPI: 40
Dielectric Constant: 3.1
Volume Resistivity: 4 x 10^{15}
Durometer, Shore A: 25
Dielectric Strength Kv/mm: 20
Dissipation Factor: .01

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.

US-SCC-24003 (RTV118, DC734 and Wacker E-43 offset equivalent)

Self-Leveling White Silicone RTV Adhesive Coating
Conforms to MIL-A-46106B Type II Group I

US-SCC-24003 is a 1-part white silicone RTV developed for coating applications. Offers unprimed adhesion to many metals and plastics. When cured, it 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 -45 to 260C

Color: Translucent – custom colors available

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, minutes at Room Temperature: 8
Tack Free Time, minutes at Room Temperature: 15

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 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, 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.

US-SCC-24003W (RTV112 and DC734 offset equivalent)
Self-Leveling White Silicone RTV Adhesive Coating
Conforms to MIL-A-46106B Type II Group I

US-SCC-24003 is a 1-part white silicone RTV developed for coating applications. Offers unprimed adhesion to many metals and plastics. When cured, it 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 -45 to 260C

Color: White

Typical Applications

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

Typical Properties

Uncured

Viscosity, cps: 20,000-35,000
Specific Gravity: 1.03
Consistency: self leveling liquid
Working time, minutes at Room Temperature: 8
Tack Free Time, minutes at Room Temperature: 15

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 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, 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.