



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 10⁻⁵

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

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.