



Set Sil-Bond

Fast Cure Silicone Rubber Parts Bonder

Product Description

Sil-Bond is a fast curing, high strength, 1-part acetoxy silicone RTV adhesive rubber product developed for silicone rubber bonding. When cured, the elastomer resists weathering, ozone, moisture, UV and high temperatures. Sil-Bond works well in manual and automatic dispensing equipment.

Product Features

- Fast RT cure
- Excellent unprimed adhesion to silicone rubber parts
- Thixotropic paste

Typical Applications

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

Chemical Cure System

- Acetoxy

Curing

Cure speed can be accelerated with increased humidity and heat to very rapid cure times. Typical utilization involves dispensing in open air and after exposure to ambient humidity, a room temperature cured rubber is formed.

Typical Properties

| | |
|--------------------------------------|------------------------|
| Color: | Translucent |
| Viscosity/cps: | 500,000 |
| Specific Gravity: | 1.12 |
| Consistency: | Thixotropic Paste |
| Working Time: | @ RT 4 Minutes |
| Tack Free Time: | @ RT 12 Minutes |
| Application Rate: | 90 PSI 250g/min |
| Cure Time: | 72 Hours @ RT |
| Durometer 40: | Shore A |
| Tensile Strength: | 750 PSI |
| Elongation: | 750% |
| Peel Strength: | 100 PPI |
| Tear Strength: | 100 PPI |
| Lap Shear Strength: | 330 PSI |
| Dielectric Strength: | 500 V/mil |
| Dielectric Constant: | 2.8 |
| Dissipation Factor: | 0.001 |
| Volume Resistivity: | 2.0 x 10 ¹⁴ |
| Thermal Conductivity: | 0.0005 |
| Coefficient of Thermal: Expansion | 20 x 10 ⁻⁵ |

Solids

98% solids

Adhesion

Excellent unprimed adhesion to silicone rubber parts.

Service Temperature

-45 to 260°C

Limitations

Allow to fully cure before putting assembly in to 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 the SDS.

Shelf Life

Sealed containers are guaranteed for 12 months from the ship date when stored in a cool dry area below 70°F.

Limited Warranty

All recommendations, statements and technical data herein are based on tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as warranty, either expressed or applied. User shall rely on his/her own information and tests to determine suitability of the product for the intended use, and the user assumes all risk and liability resulting from the use of this product.

Manufacturer's sole responsibility shall be to replace that portion of product that the manufacturer proves to be defective. Manufacturer shall not be liable to the buyer or any third party for injury, loss or damage directly or indirectly resulting from the use of, or inability to use, the product. Recommendations or statements other than those contained in a written agreement signed by an officer of the manufacturer shall not be binding by the manufacturer.

This product has not been tested for, and is therefore not recommended for, uses for which prolonged contact with mucous membranes, abraded skin, or blood is intended; or for uses which implantation within the human body is intended.