



## 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