



# GT 2100 Red

## High Temperature Silicone RTV

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### DESCRIPTION

GT Products 2100 Red is a silicone adhesive/sealant specially formulated for high temperature applications. GT Products 2100 Red is useful over a temperature range of  $-62^{\circ}\text{F}$  to  $500^{\circ}\text{F}$  for extended operation and for intermittent periods up to  $650^{\circ}\text{F}$

### FEATURES

GT Products 2100 Red may be applied to horizontal, vertical and overhead surfaces without sagging. GT Products 2100 Red will adhere without a primer to many clean substrates such as aluminum, steel, glass, wood, silicone rubber, and many plastics.

GT Products 2100 Red features excellent resistance to heat, cold, water, ozone, and ultraviolet rays. It remains flexible and does not crack or harden.

GT Products 2100 Red contains no solvents and has negligible shrinkage during cure.

### TYPICAL PROPERTIES

#### As Supplied:

Color	Red
Specific Gravity	1.04
Extrusion Rate (1/8 in. orifice, 90 psi)	390 gm/min.
Tack-free time (77°F / 50% RH)	10 – 20 min.
Cure time 1/8 thickness (77°F / 50%RH)	24 hr.

#### As Cured:

Durometer (Shore A)	26
Tensile, psi:	350
Elongation, %	600
Volume Coefficient of Thermal Expansion, (32-212°F)	$9.3 \times 10^{-4}$
Thermal Conductivity	
CAL (cm) C (sec)	$4.5 \times 10^{-5}$
BTU (ft) (F) (hr)	0.11
Volume Resistivity, ohm-cm	$1.5 \times 10^{15}$
Dielectric Strength, volt/mil	500
Dielectric Constant, 60 Hz	2.9

### **Instructions for use**

GT Products 2100 Red will adhere to most clean surfaces without additional preparation. Mild abrasion of rubber surfaces will usually improve adhesion. A preliminary test should be made on each new substrate.

Surfaces should be thoroughly cleaned with a suitable hydrocarbon solvent such as mineral spirits, naphtha, MEK, etc. Solvents must be wiped from the surface before GT Products 2100 Red is applied.

GT Products 2100 Red cures on exposure to the moisture in air. Cure time increases with confinement and cross sectional thickness and decreases with increased humidity and temperature. Curing above 150°F will reduce physical properties. At 77°F and 50% RH GT Products 2100 Red will skin over and become tack-free in 10-20 minutes. Tooling and removal of masking tapes should take place prior to this time.

GT Products 2100 Red should be applied in a less than ¼ inch diameter bead to assure a complete cross section cure. Metal to metal bonds should not overlap more than 1 inch.

The odor given off during the cure of GT Products 2100 Red is acetic acid and disappears when fully cured.

### **SPECIFICATIONS**

FDA 21 CFR. 177.2600, USDS, NSF 51,  
MIL.-A-46106, ASTM C 920  
TT-S-001543A, TT-S-002230C (COM-NBS)  
UL File No. (E163851) (E40195) (Type 5002)

### **Caution**

GT Products 2100 Red is not recommended for use on calcareous surfaces or on materials that bleed oils or plasticisers.

### **Storage and Shelf Life**

GT Products 2100 Red has a shelf life of 12 months when stored in the original unopened containers at or below 90°F.

### **Health and Safety**

GT Products 2100 Red is sold for industrial use only. Uncured product will irritate the eyes. In case of contact with the eye, flush with running water for 15 minutes and call physician.

Uncured GT Products 2100 Red may also irritate the skin. Removal by wiping with dry cloth or paper followed by washing with soap and water is recommended.

GT Products 2100 Red releases acetic acid vapor during cure. Adequate ventilation is required. Wearing contact lenses should be avoided because vapor may be trapped behind the lenses.

### **NOTE**

*The above data is based on typical experience and should not be used for specification writing. Suitability of this product for a specific application should be determined under actual use conditions. No warranty, expressed or implied, is hereby made.*

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