GT 2100
One Component Silicone RTV

1 Nov. 2002

DESCRIPTION

GT Products 2100 is a non-slump one-part silicone that cures to a tough elastomer when exposed to atmospheric moisture at room temperature. GT Products 2100 may be applied to horizontal, vertical and overhead surfaces without sagging. GT Products 2100 will adhere without a primer to many clean substrates such as aluminum, steel, glass, wood, silicone rubber, and many plastics.

FEATURES

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

GT Products 2100 contains no solvents and has negligible shrinkage during cure; GT Products 2100 is useful over a temperature range of –75°F to 450°F for extended operation and for intermittent periods up to 500°F

GT Products© 2100 meets the requirements of 21 CFR 177.2600: Mil A-46106A, TT-S-00154 3A, TT-S-00230, ASTM- 920-79

TYPICAL PROPERTIES

As Supplied:	
Color	white, clear, black, aluminum
Specific Gravity	1.04
Extrusion Rate (1/8 in. orifice, 90 psi)	350 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)	30
Tensile, psi:	350
Elongation, %	500
Brittle Point	-100°F
Volume Coefficient of Thermal Expansion, (32-212°F)	9.3×10^{-4}
Thermal Conductivity	
CAL (cm) (C)(sec)	4.5×10^{-5}
BTU (ft) (F) (hr)	0.11
Volume Resistivity, ohm-cm	1.5×10^{15}
Dielectric Strength, volt/mil	550
Dielectric Constant,	
60 Hz	2.8
100 KHz	2.8
Dissipation Factor	
60 Hz	0.0015
100 KHz	0.0015

Instructions for use

GT Products 2100 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 is applied.

GT Products 2100 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 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 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 is acetic acid and disappears when fully cured.

Caution

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

Storage and Shelf Life

GT Products 2100 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 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 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 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.

1 Nov. 2002

GT Products inc. 501 Industrial Blvd. Grapevine, TX 76051 Phone # 800-221-0866 Fax # 817-421-1211

GT 2100 Red
High Temperature Silicone RTV

1 Nov. 2002

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 –75°F to 500°F for extended operation and for intermittent periods up to 600°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)	350 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)	30
Tensile, psi:	350
Elongation, %	500
Brittle Point	-100°F
Volume Coefficient of Thermal Expansion, (32-212°F)	9.3×10^{-4}
Thermal Conductivity	
CAL (cm) C) (sec)	4.5×10^{-5}
BTU (ft) (F) (hr)	0.11
Volume Resistivity, ohm-cm	1.5×10^{15}
Dielectric Strength, volt/mil	550
Dielectric Constant,	
60 Hz	2.8
100 KHz	2.8
Dissipation Factor	
60 Hz	0.0015
100 KHz	0.0015

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 77F 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.

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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GT 3100
One Component Silicone RTV

1 Nov. 2002

DESCRIPTION

GT Products 3100 is a non-slump one-part silicone that cures to a tough elastomer when exposed to atmospheric moisture at room temperature. GT Products 3100 is a neutral cure (oxime) system and has no offensive odor.

FEATURES

Because no corrosive by-products are evolved, GT Products 3100 will not corrode metals and can be used in contact with mortar and cement.

GT Products 3100 may be applied to horizontal, vertical and overhead surfaces without sagging. GT Products 3100 will adhere without a primer to many clean substrates such as aluminum, steel, glass, wood, silicone rubber, and has excellent adhesion to many plastics.

GT Products 3100 features excellent resistance to heat, cold, water, ozone, and ultraviolet rays. It remains flexible and does not crack or harden.

GT Products 3100 contains no solvents.

It has negligible shrinkage during cure; GT Products 3100 is useful over a temperature range of –75°F to 450°F for extended operation and for intermittent periods up to 500°F

TYPICAL PROPERTIES

<u>As Supplied</u>:	
Color	clear
Specific Gravity	1.05
Extrusion Rate (1/8 in. orifice, 90 psi)	250 gm/min.
Tack-free time (77°F ./. 50% RH)	10 – 20 min.
Cure time 1/8 thickness (77°F / 50%RH)	24 hr.
<u>As Cured:</u>	
Durometer (Shore A)	30
Tensile, psi:	270
Elongation, %	310
Brittle Point	-100°F
Volume Coefficient of Thermal Expansion, (32-212°F)	9.3×10^{-4}
Thermal Conductivity	
CAL (cm) © (sec)	4.5×10^{-5}
BTU (ft) (F) (hr)	0.11
Volume Resistivity, ohm-cm	$1. \times 10^{15}$
Dielectric Strength, volt/mil	500
Dielectric Constant,	
60 Hz	2.6
100 KHz	2.6
Dissipation Factor	
60 Hz	0.001
100 KHz	0.001

Instructions for use

GT Products 3100 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 3100 is applied.

GT Products 3100 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 3100 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 3100 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.

No odor or corrosive by-products given off during the cure of GT Products 3100.

Caution

GT Products 3100 is not recommended for use on calcareous surfaces or on materials that bleed oils or plasticisers.

Storage and Shelf Life

GT Products 3100 has a shelf life of 12 months when stored in the original unopened containers at or below 90°F.

Health and Safety

GT Products 3100 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 3100 may also irritate the skin. Removal by wiping with dry cloth or paper followed by washing with soap and water is recommended.

Wearers of contact lenses should not handle lenses unless the sealant has been completely removed from fingertips.; sealant will transfer to lens and cause severe eye irritation.

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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GT 55
Silicone RTV Dispersion

1 Nov. 2002

DESCRIPTION:

GT Products 55 Dispersion is a one-component silicone elastomer curing at room temperature by reacting with the moisture in the air. It is used as a semi-permanent, air-drying release coating.

This product, containing reactive polydimethylsiloxane polymers, inert fillers, and pigment is supplied as a 55% dispersion in mineral spirits.

GT Products 55 DISPERSION meets the requirements of 21CFR 177. 2600 and can be used as a non-stick coating for materials which may come in contact with food-stuffs.

PROPERTIES:

1. Excellent Heat Stability
2. Excellent Non-Stick Properties
3. High Mechanical Strength
4. Waterproof
5. Inert

CHARACTERISTICS:

1. Appearance	Flowable Liquid
2. Color	Red
3. Odor	Acetic
4. Specific Gravity (@77°F)	0.95
5. Viscosity (@75°F)	5,000 cps
6. Flash Point, Closed cup	55°F
7. Thinners	Aliphatic and Aromatic Hydrocarbons