



LOCTITE[®] Superflex[®] Non-Corrosive RTV Silicone

November 2004

PRODUCT DESCRIPTION

LOCTITE[®] Superflex[®] Non-Corrosive RTV Silicone provides the following product characteristics:

Technology	Silicone
Chemical Type	Oxime silicone
Appearance (uncured)	Clear paste
Components	One component - requires no mixing
Cure	Room temperature vulcanizing (RTV)
Application	Sealing and Bonding
Flexibility	Enhances load bearing & shock absorbing characteristics of the bond area.
Specific Benefit	Non-corrosive
Specific Application	Sealing and bonding of electrical/electronic components

LOCTITE[®] Superflex[®] Non-Corrosive RTV Silicone offers resistance to water, steam, chemicals, and UV ozone exposure. Also adheres to a wide range of substrates (glass, rubber, wood, ceramics, and painted surfaces).

TYPICAL PROPERTIES OF UNCURED MATERIAL

Specific Gravity @ 25 °C	1.04
Flash Point - See MSDS	

TYPICAL CURING PERFORMANCE

Surface Cure

Tack Free Time is the time required to achieve a tack free surface.

Tack Free Time, minutes:	
Cured @ 25 °C / 50±5% RH	≤30 ^{LMS}

Skin Over Time, minutes:	
Cured @ 25 °C / 50±5% RH	15 to 20

TYPICAL PROPERTIES OF CURED MATERIAL

Cured for 7 days @ 25 °C / 50±5% RH

Physical Properties:

Shore Hardness, ASTM D 2240, Durometer A	≥20 ^{LMS}
Elongation, ASTM D 412, %	≥300 ^{LMS}
Tensile Strength, ASTM D 412	N/mm ² ≥1.2 ^{LMS} (psi) (≥174)

Electrical Properties:

Dielectric Breakdown Strength, ASTM D 149, kV/mm	16
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GENERAL INFORMATION

This product is not recommended for use in pure oxygen and/or oxygen rich systems and should not be selected as a sealant for chlorine or other strong oxidizing materials.

For safe handling information on this product, consult the Material Safety Data Sheet (MSDS).

Directions for use

1. For best performance bond surfaces should be clean and free from grease.
2. Moisture curing begins immediately after the product is exposed to the atmosphere, therefore parts to be assembled should be mated within a few minutes after the product is dispensed.
3. The bond should be allowed to cure (e.g. seven days), before subjecting to heavy service loads.
4. Excess material can be easily wiped away with non-polar solvents.
5. Excess cured material can be removed with a knife or single edge razor blade..

Loctite Material Specification^{LMS}

LMS dated May 1, 2001. Test reports for each batch are available for the indicated properties. LMS test reports include selected QC test parameters considered appropriate to specifications for customer use. Additionally, comprehensive controls are in place to assure product quality and consistency. Special customer specification requirements may be coordinated through Henkel Quality.

Storage

Store product in the unopened container in a dry location. Storage information may be indicated on the product container labeling.

Optimal Storage: 8 °C to 21 °C. Storage below 8 °C or greater than 28 °C can adversely affect product properties.

Material removed from containers may be contaminated during use. Do not return product to the original container. Henkel Corporation cannot assume responsibility for product which has been contaminated or stored under conditions other than those previously indicated. If additional information is required, please contact your local Technical Service Center or Customer Service Representative.

Conversions

$(^{\circ}\text{C} \times 1.8) + 32 = ^{\circ}\text{F}$
 $\text{kV/mm} \times 25.4 = \text{V/mil}$
 $\text{mm} / 25.4 = \text{inches}$
 $\text{N} \times 0.225 = \text{lb}$
 $\text{N/mm} \times 5.71 = \text{lb/in}$
 $\text{N/mm}^2 \times 145 = \text{psi}$
 $\text{MPa} \times 145 = \text{psi}$
 $\text{N}\cdot\text{m} \times 8.851 = \text{lb}\cdot\text{in}$
 $\text{N}\cdot\text{mm} \times 0.142 = \text{oz}\cdot\text{in}$
 $\text{mPa}\cdot\text{s} = \text{cP}$

Note

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