

## LOCTITE® SI 5011CL

January 2015

### PRODUCT DESCRIPTION

LOCTITE® SI 5011CL provides the following product characteristics:

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

LOCTITE® SI 5011CL 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 SDS	

### Typical curing performance

#### Surface cure

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

Tack free time, minutes:	≤30
Cured @ 25°C/50±5 % RH	
Skin over time, minutes	15 to 20
Cured @ 25°C/50±5 % RH	

### Typical properties of cured material

Cured for 1 week @ 25°C / 50±5 % RH

#### Physical properties:

Shore hardness, ISO 868, Durometer A	≥20
Elongation, ISO 37, %	≥300
Tensile strength, ISO 37	N/mm <sup>2</sup> ≥1.2 (psi) (≥174)

#### Electrical properties:

Dielectric breakdown strength, IEC 60243-1, 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 Safety Data Sheet (SDS).**

#### Directions for use:

1. For best performance, the 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.

#### 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 Henkel representative.

**Product Specification**

The technical data contained herein are intended as reference only and are not considered specifications for the product.

Product specifications are located on the Certificate of Analysis or please contact Henkel representative.

**Approval and Certificate**

Please contact Henkel representative for related approval or certificate of this product.

**Data ranges**

The data contained herein may be reported as a typical value. Values are based on actual test data and are verified on a periodic basis.

Temperature/Humidity Ranges: 23°C / 50% RH = 23±2°C / 50±5% RH

**Conversions**

(°C x 1.8) + 32 = °F

kV/mm x 25.4 = V/mil

mm / 25.4 = inches

µm / 25.4 = mil

N x 0.225 = lb

N/mm x 5.71 = lb/in

N/mm<sup>2</sup> x 145 = psi

MPa x 145 = psi

N·m x 8.851 = lb·in

N·m x 0.738 = lb·ft

N·mm x 0.142 = oz·in

mPa·s = cP

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