

**LOCTITE® SI 5940™**Known as LOCTITE® 5940™  
May 2014**PRODUCT DESCRIPTION**

LOCTITE® SI 5940™ provides the following product characteristics:

|                             |                                                                                   |
|-----------------------------|-----------------------------------------------------------------------------------|
| <b>Technology</b>           | Silicone                                                                          |
| <b>Chemical Type</b>        | Acetoxy silicone                                                                  |
| <b>Appearance (uncured)</b> | Black paste                                                                       |
| <b>Components</b>           | One component - requires no mixing                                                |
| <b>Cure</b>                 | Room temperature vulcanizing (RTV)                                                |
| <b>Application</b>          | Bonding, Sealing and Gasketing                                                    |
| <b>Specific Benefit</b>     | Excellent resistance to aging, shrinkage, cracking and discoloring. Solvent free. |

LOCTITE® SI 5940™ cures on exposure to moisture in the air to form a tough, flexible, waterproof, oil-resistant silicone rubber bond. This sealant is primarily used as a general purpose sealing and bonding agent, as a space-filling rubber adhesive or formed-in-place gasket. It adheres to clean metal, glass, most types of non-oily woods, silicone resin, vulcanized silicone rubber, ceramic, natural and synthetic fiber and many painted and plastic surfaces. This product is typically used in applications with an operating range of -50 °C to 200 °C and can intermittently reach temperatures up to 220 °C.

**TYPICAL PROPERTIES OF UNCURED MATERIAL**

|                          |      |
|--------------------------|------|
| Specific Gravity @ 25 °C | 1.02 |
| Extrusion Rate, g/min    | 200  |
| Flash Point - See SDS    |      |

**TYPICAL CURING PERFORMANCE****Skin Over Time**

Skin over time is the time the surface of the adhesive forms a skin upon exposure to atmospheric moisture at 25 ± 2 °C, 50 ± 5% RH.

|                         |    |
|-------------------------|----|
| Skin Over Time, minutes | 14 |
|-------------------------|----|

**Tack Free Time**

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

|                         |    |
|-------------------------|----|
| Tack Free Time, minutes | 20 |
|-------------------------|----|

**TYPICAL PROPERTIES OF CURED MATERIAL**

Cured for 7 days @ 23 °C / 50% RH, on 2 mm thick sheet, :

**Physical Properties:**

|                                      |                                      |
|--------------------------------------|--------------------------------------|
| Shore Hardness, ISO 868, Durometer A | 22                                   |
| Elongation, at break, ISO 37, %      | 500                                  |
| Tensile Strength, ISO 37             | N/mm <sup>2</sup> 1.8<br>(psi) (260) |

**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).**

*NOTE: The curing process can cause corrosion to some surfaces.*

**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.

*NOTE: LOCTITE® SI 5940™ is not recommended for use as a cylinder head gasket or head gasket sealant.*

**Not for product specifications**

The technical data contained herein are intended as reference only. Please contact your local quality department for assistance and recommendations on specifications for this product.

**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**

$(^{\circ}\text{C} \times 1.8) + 32 = ^{\circ}\text{F}$   
 $\text{kV/mm} \times 25.4 = \text{V/mil}$   
 $\text{mm} / 25.4 = \text{inches}$   
 $\mu\text{m} / 25.4 = \text{mil}$   
 $\text{N} \times 0.225 = \text{lb}$   
 $\text{N/mm} \times 5.71 = \text{lb/in}$   
 $\text{N/mm}^2 \times 145 = \text{psi}$   
 $\text{MPa} \times 145 = \text{psi}$   
 $\text{N}\cdot\text{m} \times 8.851 = \text{lb}\cdot\text{in}$   
 $\text{N}\cdot\text{m} \times 0.738 = \text{lb}\cdot\text{ft}$   
 $\text{N}\cdot\text{mm} \times 0.142 = \text{oz}\cdot\text{in}$   
 $\text{mPa}\cdot\text{s} = \text{cP}$

**Note:**

The information provided in this Technical Data Sheet (TDS) including the recommendations for use and application of the product are based on our knowledge and experience of the product as at the date of this TDS. The product can have a variety of different applications as well as differing application and working conditions in your environment that are beyond our control. Henkel is, therefore, not liable for the suitability of our product for the production processes and conditions in respect of which you use them, as well as the intended applications and results. We strongly recommend that you carry out your own prior trials to confirm such suitability of our product.

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Reference 0.1