

PRODUCT DESCRIPTION

LOCTITE® SI 207 Clear provides the following product characteristics:

Technology	Silicone
Chemical Type	Polysiloxane (Oxime Cure System)
Appearance (uncured)	White Paste
Components	One component - requires no mixing
Viscosity	Thixotropic paste
Cure	Room temperature vulcanizing (RTV)
Application	Sealing
Specific Benefits	Non-corrosive

LOCTITE® SI 207 Clear is a single component, neutral (non-acetic) silicone sealant specially developed for polycarbonate, plastic materials in general, mirrors, nonferrous metals, concrete and ceramics with service temperature from – 65 to 400 °F (-54 to 204 °C).

TYPICAL PROPERTIES OF UNCURED MATERIAL

Specific Gravity @ 25 °C:	1.02
Extrusion Rate @25°C, g/min: (3 bar, 3mm nozzle)	25-40
Viscosity @25°C:	Thixotropic paste

TYPICAL CURING PERFORMANCE

Cure speed is depends on environmental humidity and temperature.

Fixture time, 25 °C, 60% RH	15 min
100% Cure	24Hrs

TYPICAL PERFORMANCE OF CURED MATERIAL

Cured for 1 week @ 23 °C / 50% RH

Physical Properties:

Hardness, Shore A, DIN 53505	18
Tensile Strength, ASTM D882, N/mm ² (psi)	1.0 (145)
Peel strength, ASTM D624, N/mm	4.0
Elongation to break, DIN53504, %	400
Modulus, DIN54504, N/mm ²	0.35
Environmental Resistance	Excellent
Resistance to Water Vapor	Excellent
Corrosion to metal	None
Adhesion	Excellent

Electrical Properties

Dielectric constant & loss, ASTM D150	Constant	Loss
@ 1 kHz	3.038	0.0005
@ 100 KHz	3.046	0.0007
@ 1 MHz	3.056	0.0045

Volume resistivity, ASTM D257, Ωcm	3.695 E15
Surface resistivity, ASTM D257, Ω	2.087 E15
Dielectric strength, ASTM D733, Volts/mil	491

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 product should be allowed to cure (e.g. 7 days), before subjecting to heavy service loads.
4. Excess material can be easily wiped away with non-polar solvents.
5. For fully automatic applications a volumetric dispensing system is recommended.

Storage

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

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

Material removed from original package may be contaminated during use. Do not return product to the original container. Henkel 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 your local 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/mm² 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

Disclaimer

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