



Research, Development & Engineering

Tallaght Business Park,
Dublin, Ireland

PRELIMINARY

Technical Data Sheet Product 5385A/B

November 1995

PRODUCT DESCRIPTION

LOCTITE® Product 5385A/B is a two part flowable RTV silicone sealant which cures rapidly at ambient temperature.

TYPICAL APPLICATIONS

The flowable characteristics and its excellent temperature resistance make this product suitable for potting, sealing or encapsulating units, heating elements, electrical irons and switches.

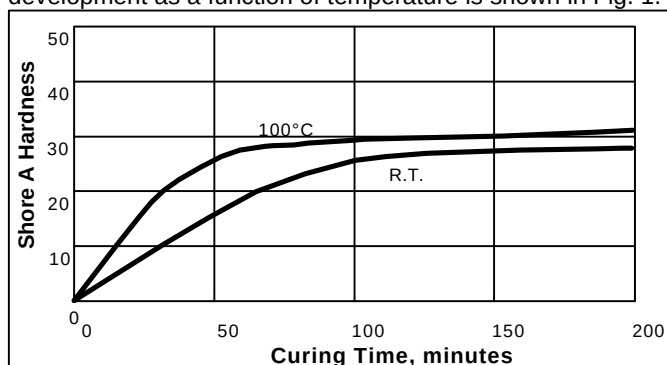
PROPERTIES OF UNCURED MATERIAL

	Part A	Part B
Chemical Type	Acetoxy Silicone	Silicone
Appearance	Red	Black
Specific Gravity @ 25°C	1.1	1.4
Viscosity @ 25°C	20,000	Paste
Flash Point (TCC), °C	100	100

TYPICAL CURING PERFORMANCE

Skin Over Time

The surface of this adhesive becomes dry to touch within 5 minutes at 23±2°C, 50±5%RH. The Shore A hardness development as a function of temperature is shown in Fig. 1.



TYPICAL PROPERTIES OF CURED MATERIAL

Max. temp. °C at which product retains 50% of RT strength after:

72hrs	300
1000hrs	250

Electrical Properties

Dielectric constant, ASTM D150, 1MHz	2.9
Dielectric strength, ASTM D419, kV/mm	21
Volume resistivity, ASTM D257, Ω.cm	8×10^{14}

PERFORMANCE OF CURED MATERIAL

(After 7 days @ 23±2°C, 50±5%RH 5mm film)

Tensile strength, ASTM D412, MPa	1.8
Elongation to break, %, ASTM D412:	180
Hardness, Shore A, ASTM D2240	36

Adhesion Properties

Tensile shear strength, (MPa)

(1mm thick bondline. Sanded Al. lapshears)

1. After 7 days at 23°C/50%RH	1.25
2. After 1 + 14 days at 70°C/95%RH	0.9
3. After 1 + 3 days at 250°C	0.8

GENERAL INFORMATION

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

Directions for use

Product is available in industrial kits with packages of A&B product matched for accurate mixing on standard mixing equipment. Please contact local Technical Service Centre for specific equipment recommendations.

Product 5385A/B should be applied as a bead to a clean surface. When used as a pre-applied gasketing material this bead should be allowed to cure fully before being subjected to service loads. If Product 5385A/B is being used as a rapid curing adhesive/sealant, the joint should be assembled within 5 minutes. Pressure should be applied to spread the adhesive out and fill the joint completely. The bond should be allowed to cure fully before subjecting to heavy service loads.

Storage

Product shall be ideally stored in a cool, dry location in unopened containers at a temperature between 8°C to 28°C (46°F to 82°F) unless otherwise labelled. Optimal storage is at the lower half of this temperature range. To prevent contamination of unused product, do not return any material to its original container. For further specific shelf life information, contact your local Technical Service Centre.

Note

The data contained herein are furnished for information only and are believed to be reliable. We cannot assume responsibility for the results obtained by others over whose methods we have no control. It is the user's responsibility to determine suitability for the user's purpose of any production methods mentioned herein and to adopt such precautions as may be advisable for the protection of property and of persons against any hazards that may be involved in the handling and use thereof. In light of the foregoing, Loctite Corporation specifically disclaims all warranties expressed or implied, including warranties of merchantability or fitness for a particular purpose, arising from sale or use of Loctite Corporation's products. Loctite Corporation specifically disclaims any liability for consequential or incidental damages of any kind, including lost profits. The discussion herein of various processes or compositions is not to be interpreted as representation that they are free from domination of patents owned by others or as a licence under any Loctite Corporation patents that may cover such processes or compositions. We recommend that each prospective user test his proposed application before repetitive use, using this data as a guide. This product may be covered by one or more United States or foreign patents or patent applications.

NOT FOR PRODUCT SPECIFICATIONS.

THE TECHNICAL DATA CONTAINED HEREIN ARE INTENDED AS REFERENCE ONLY.

PLEASE CONTACT LOCTITE CORPORATION QUALITY DEPARTMENT FOR ASSISTANCE AND RECOMMENDATIONS ON SPECIFICATIONS FOR THIS PRODUCT.

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