

SEMICOSIL® 988/1K

SILICONE ADHESIVE

Product description

SEMICOSIL® 988/1K is a non-slump, thermally curable, addition curing one-part silicone rubber.

Special features

- ready-to-use, one-part system
- thixotropic
- transparent
- medium hardness
- high flexibility (low-stress-adhesive)
- rapid heat cure
- excellent primerless adhesion to many substrates

Processing

Surface preparation

All surfaces must be clean and free of contaminants that will inhibit the cure of SEMICOSIL® 988/1K. Examples of inhibiting contaminants are sulfur containing materials, plasticizers, urethanes, amine containing materials and organometallic compounds – especially organotin compounds. If a substrate's ability to inhibit cure is unknown, a small scale test should be run to determine compatibility.

Dispensing

Because of the thixotropy (shear thinning effect) SEMICOSIL® 988/1K can be dispensed easily with all dispensing equipments.

Curing

SEMICOSIL® 988/1K works best when cured at 125 °C or more depending on the size and heat sink properties of the components.

Temperature

Curing time, thickness 10 mm

100°C	6 h
130°C	1 h
150 °C	10 min

SEMICOSIL® 988/1K shows good primerless adhesion to many substrates. We recommend running preliminary tests to optimize conditions for the particular application.

Storage

The 'Best use before end' date of each batch is shown on the product label.

Storage beyond the date specified on the label does not necessarily mean that the product is no longer usable. In this case however, the properties required for the intended use must be checked for quality assurance reasons.

Cartridges of SEMICOSIL® 988/1K should be stored below 8 °C in the tightly closed original container.

Safety notes

According to the latest findings, the addition-curing silicone rubber SEMICOSIL® 988/1K contains neither toxic or corrosive substances which would require special handling precautions.

Comprehensive instructions are given in the corresponding Material Safety Data Sheets. They are available on request from WACKER subsidiaries or may be printed via WACKER web site <http://www.wacker.com>.

Product data
Typical general characteristics
Inspection Method
Value
Product data (uncured)

Color		transparent
Density at 23 °C		1,1 g/cm ³
Viscosity at 23 °C (D = 0.5 1/s)	ISO 3219	450000 mPa*s
Viscosity at 23 °C (D = 25 1/s)	ISO 3219	30000 mPa*s

Product data (cured)

Color		transparent
Density at 23 °C	ISO 2781	1,1 g/cm ³
Hardness Shore A	ISO 868	35
Elongation at break	ISO 37	350 %
Tensile strength	ISO 37	4,50 N/mm ²
Modulus at 100 % elongation	ISO 37	0,5
Tear resistance	ASTM D 624 B	24 N/mm
Dielectric strength	IEC 243	23 kV/mm
Volume resistivity	DIN IEC 93	10 ¹⁵ Ω·cm
Tracking resistance	DIN IEC 112	> 600 CTI

Cured for 30 min at 150 °C in a circulating air oven.

These figures are only intended as a guide and should not be used in preparing specifications.

The data presented in this medium are in accordance with the present state of our knowledge but do not absolve the user from carefully checking all supplies immediately on receipt. We reserve the right to alter product constants within the scope of technical progress or new developments. The recommendations made in this medium should be checked by preliminary trials because of conditions during processing over which we have no control, especially where other companies' raw materials are also being used. The information provided by us does not absolve the user from the obligation of investigating the possibility of infringement of third parties' rights and, if necessary, clarifying the position. Recommendations for use do not constitute a warranty, either express or implied, of the fitness or suitability of the product for a particular purpose.

The management system has been certified according to DIN EN ISO 9001 and DIN EN ISO 14001

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For technical, quality, or product safety questions, please contact:

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