

# SEMICOSIL<sup>®</sup> 9882 A/B

## Room Temperature Curing Silicone Rubber (RTV-2)

SEMICOSIL<sup>®</sup> 9882 A/B is a thixotropic, addition-curing two-component silicone rubber adhesive that cures at moderate temperatures.

### Properties

- Thixotropic, pasty
- Low hardness, low modulus
- Excellent compression set properties
- Excellent elongation
- Fast curing at 80°C
- Primerless adhesion on many substrates
- UV-tracer

## Technical data

### Properties Uncured

Property	Condition	Value	Method
Color component A	-	Grey	-
Color component B	-	Translucent	-
Density component A	23 °C	1.1 g/cm <sup>3</sup>	DIN EN ISO 1183-1
Density component B	23 °C	1.1 g/cm <sup>3</sup>	DIN EN ISO 1183-1
Viscosity, dynamic Rot. dyn., component A	25 °C   0.5 1/s	350000 mPa·s	ISO 3219, D = 0.5 1/s
Viscosity, dynamic Rot. dyn., component A	25 °C   25 1/s	57000 mPa·s	ISO 3219
Viscosity, dynamic Rot. dyn., component B	25 °C   0.5 1/s	520000 mPa·s	ISO 3219, D = 0.5 1/s
Viscosity, dynamic Rot. dyn., component B	25 °C   25 1/s	60000 mPa·s	ISO 3219

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

### Catalyzed

Property	Condition	Value	Method
Viscosity, dynamic Rot. dyn.	25 °C   0.5 1/s	450000 mPa·s	ISO 3219, D = 0.5 1/s
Viscosity, dynamic Rot. dyn.	25 °C   25 1/s	55000 mPa·s	ISO 3219
Platinum catalyst in component	-	A	-
Mix ratio	-	1 : 1	A : B
Pot Life	23 °C	1 h	DIN EN ISO 3219
Curing time 3 mm	100 °C	10 min	-
Curing time 3 mm	60 °C	30 min	-

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## Properties Cured

presscured at 165°C for 5 min.

Property	Condition	Value	Method
Color	-	Grey	-
Density	23 °C	1.1 g/cm <sup>3</sup>	DIN EN ISO 1183-1 A
Hardness Shore A	-	32	DIN ISO 48-4
Tensile strength	-	5 N/mm <sup>2</sup>	ISO 37 type 1
Elongation at break	-	400 %	ISO 37 Type 1 / 23°C / t = 2 mm
Modulus at 100 % elongation	23 °C	0.5 N/mm <sup>2</sup>	ISO 37 type 1
Compression Set	22 h   125 °C	≤ 30 %	DIN ISO 815-1 type B method A
Lap shear strength (on pickled aluminum) <sup>(1)</sup>	0.2 mm	≥ 2 N/mm <sup>2</sup>	-

<sup>1</sup>DIN EN 1465, 23°C

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## Applications

- Electronic Control Unit (ECU)
- Power Control Unit (PCU)

## Application details

- CIPG applications for plastic and metal housings
- FIPG applications for plastic and metal housings
- Dam material for dam-and-fill applications
- Sealing and gasketing of housings

## Processing

### Surface Preparation

All surfaces must be clean and free of contaminants that will inhibit the cure of SEMICOSIL® 9882. 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.

## Mixing

Component A of SEMICOSIL® 9882 contains the platinum catalyst, component B the crosslinker. Even traces of the platinum catalyst may cause curing of the component containing the crosslinker. Therefore tools (spatula, stirrers, etc.) used for handling the platinum-containing component or the catalyzed compound must not come into contact with this component.

The two components should be thoroughly mixed at a 1:1 ratio by weight.

To eliminate any air introduced during mixing or trapped under components or devices a vacuum de-airing under a vacuum of 10 – 20 mm mercury for 5 – 10 min is recommended.

## Curing

Curing time of addition-curing silicone rubber is highly dependent on temperature, silicone amount, size and heat sink properties of the substrate the silicone is applied on. We recommend running preliminary tests to optimize conditions for the particular application. SEMICOSIL® 9882 shows good primerless adhesion to many substrates. We recommend running preliminary tests to optimize conditions for the particular application.

Property	Value
Platinum-catalyst in component	A
Mixing ratio, parts by weight	A : B 1 : 1
Pot life at 23°C	60 min
Curing time 3 mm 100°C	10 min
Curing time 3 mm 60°C	30 min

## Packaging and storage

### Storage

The 'Best use before end' date of each batch appears 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.

## Safety notes

Detailed safety information is contained in each material data safety sheet, which can be obtained from our sales offices.

## QR Code SEMICOSIL® 9882 A/B



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

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