

# SEMICOSIL<sup>®</sup> 832 A/B



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

SEMICOSIL<sup>®</sup> 832 UV is specially designed for an assembly glue or side-sealing which requires high adhesion.

This is a non-slump silicone adhesive as a 2-component elastomer that is cured by heating conditions with stable adhesion to various substrates with a cohesive failure mode for automotive.

This is designed for fast cure processing or wet bonding during processing with fast adhesion built-up at oven processing.

## Properties

- Extremely high adhesion to various substrates such as metals, glass, urethane, primer-treated polycarbonate etc.
- High elongation for efficient stress relaxation
- Fast curing and adhesion built-up at the minimum energy input (e.g. 60°C/10min)
- Thixotropic for non-slump and medium viscosity at the dynamic condition for nozzle dispensability
- Waterproof property with low surface energy and hydrophobic structure

## Specific features

- Addition Curing
- fast curing at moderate temperatures
- Fast curing at room temperature
- No chemical shrinkage
- Non-slump
- Two-component
- UV curing

## Technical data

### Properties Uncured

Property	Condition	Value	Method
Color of A+B mixed	-	Black	-
Viscosity of mix at 0,5/s	25 °C	600,000 ± 60,000 mPa.s	-
Viscosity of mix at 25/s	25 °C	50,000 ± 5,000 mPa.s	-

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

### Properties Uncured

Property	Condition	A	B	Method
Color	-	Milky translucent	Black	-
Density	-	1.0 - 1.2 g/cm <sup>3</sup>	1.0 - 1.2 g/cm <sup>3</sup>	-
Viscosity at 25/s	25 °C	50,000 ± 5,000 mPa.s	48,000 ± 5,000 mPa.s	-

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### Catalyzed

Property	Condition	Value	Method
Mix ratio	-	1 : 1	A : B
Pot Life <sup>(1)</sup>	25 °C	≥ 20 min	DIN EN ISO 3219
T90 at 60°C <sup>(2)</sup>	60 °C	≤ 140 s	-

<sup>1</sup>Time to double viscosity up

<sup>2</sup>T90 : Time to 90% cure degree up

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## Properties Catalyzed A+B

Property	Condition	Value	Method
Hardness Shore A	-	50	ASTM D 2240 Type A
Tensile strength	-	7 - 10 MPa	-
Elongation at break	-	≥ 600 %	ISO 37
Lap shear strength to Al	-	≥ 5 MPa	-
Lap shear strength to Glass <sup>(1)</sup>	-	≥ 8 MPa	-
Lap shear strength to Mg	-	≥ 5 MPa	-

<sup>1</sup>Cure condition : 60°C/15min (adhesion test : after 1hr cooling at 25°C from cure), T=0.3mm Test speed = 300mm/min

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All the information provided is in accordance with the present state of our knowledge. Nonetheless, we disclaim any warranty or liability whatsoever and reserve the right, at any time, to effect technical alterations. The information provided, as well as the product's fitness for an intended application, should be checked by the buyer in preliminary trials. Contractual terms and conditions always take precedence. This disclaimer of warranty and liability also applies particularly in foreign countries with respect to third parties' rights.

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

## Applications

- Adhesives
- Automotive Electronics
- Automotive, Aerospace & Railway
- Bonding & Sealing
- Displays & Optical Bonding
- E-Mobility
- Electrics & Electronics
- Electronics
- Industrial Adhesives

## Application details

- Assembly glue for displays
- Side-sealing agent for smart-window applications
- Bonding material or sealing agent in electronics, automotive, and other industrial applications

## Processing

- **Surface preparation**

All surfaces must be clean and free of contaminants that will inhibit the cure of SEMICOSIL 832 A+B mixed. 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 ratio**

SEMICOSIL 832 A : SEMICOSIL 832 B = 1 : 1

- **Curing**

Curing speed can be adjusted by heating temperature and time. SEMICOSIL 832 A+B mixed can be solidified within 30min at room temperature.

We recommend running preliminary tests to optimize conditions for the particular application.

**(Reference cure condition: 60°C/10~15min)**

## Packaging and storage

### Packaging

1KG BOTTLE PE  
18KG HOBBOCK PE

### Storage

SEMICOSIL 832 A and SEMICOSIL 832 B should be stored between 5 °C and 30 °C and below 60%RH in the tightly closed original container.

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

- **Shelf life**

SEMICOSIL 832 A : 1 year  
SEMICOSIL 832 B : 1 year

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

SEMICOSIL 832, being an addition-curing silicone rubber contains neither toxic nor aggressive substances which might require special handling precautions. General industrial hygiene regulations should be observed.

Comprehensive instructions are given in the corresponding Material Safety Data Sheets. They are available on request from Wacker subsidiaries.

## QR Code SEMICOSIL® 832 A/B



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

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