VERSATILE SOFT SEALING ADHESIVE

SEMICOSIL® 811

If you prefer short curing times and fast adhesion built-up with minimum energy input, SEMICOSIL® 811 is the product of choice. The highly specialized silicone adhesive sealant provides state of the art technology for efficient and ecofriendly processing.

Product Description

SEMICOSIL® 811 is a non-slump low modulus silicone adhesive sealant designed for oven free processing and fast adhesion built-up at room temperature or minimum energy input.

It is used in 10:1 combination with catalysts ELASTOSIL® CAT PT-F or ELASTOSIL® CAT PT for regular cure or with ELASTOSIL® CAT UV for UV-activated cure.

Features of SEMICOSIL® 811

- High flexibility, high-temperature resistance and low-stress adhesive
- Fast adhesion built-up at room temperature or with moderate energy input (< 10 min at 60 – 80 °C)
- Reduced cycle times (faster processing)
- In-line QC process possible
- No UV-transparent substrates needed
- Allows automated optical inspection control, blue fluorescence under black-light

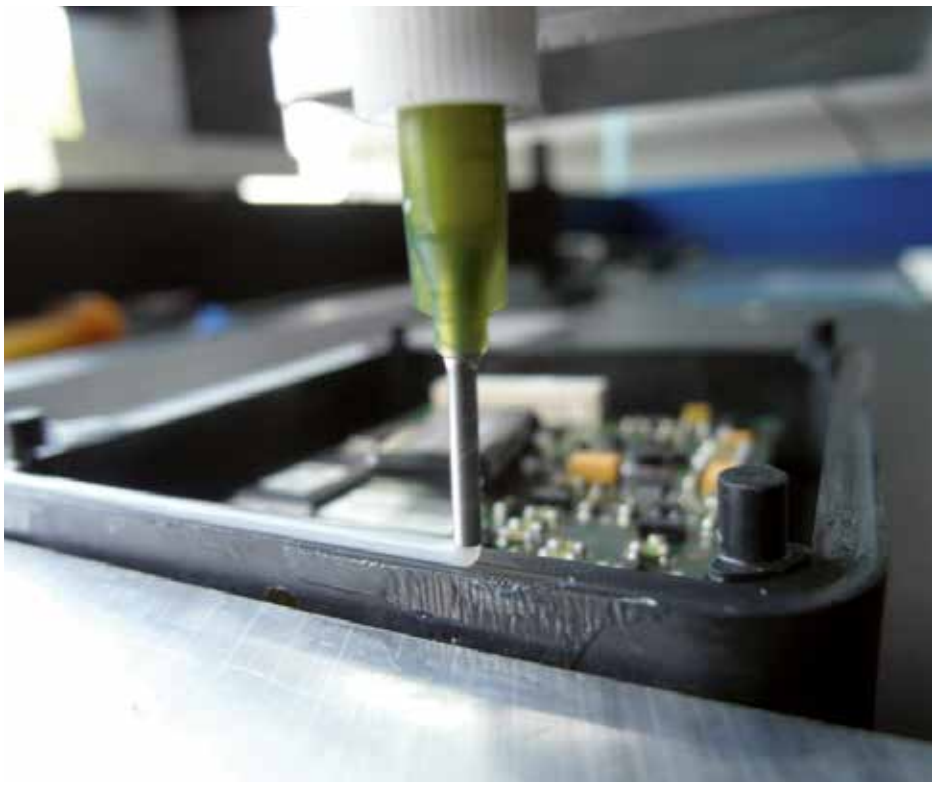
Applications

- Automotive electronics
- Sensor applications
- Various kinds of electronics control units
- Bonding display glass
- Covers to frame

Product Properties of SEMICOSIL® 811		
Viscosity D=0.5 s^{-1}	[mPa s]	400,000
Viscosity D=25 s^{-1}	[mPa s]	45,000
Viscosity mix D=0.5 s^{-1}	[mPa s]	300,000
Viscosity mix D=25 s^{-1}	[mPa s]	35,000
Hardness shore A	[KME]	30
Modulus [at 100%]	[MPa]	1.0
Elongation	[%]	300
Tensile strength	[N/mm²]	3.0
Lap shear strength PBT*	[N/mm²]	1 – 2
Lap shear strength Al**	[N/mm²]	1 – 2

***0.4 mm between ULTRADUR® BG 4300 GF 30**

****0.4 mm between AlMgCu 2pl (non treated) all measured after UV irradiation of SEMICOSIL® 811/ ELASTOSIL® CAT UV (10:1) using UV A 120 mW/cm² /10 sec, 24 h at 25 °C**



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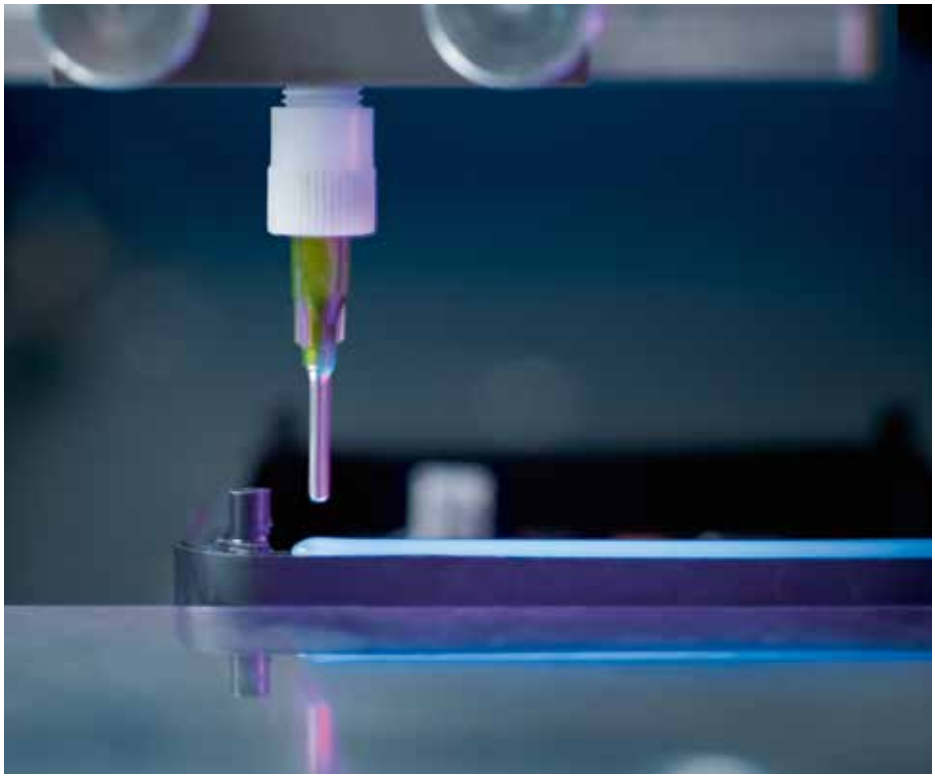
CREATING TOMORROW'S SOLUTIONS

Your Plus: Robust Adhesion to Sensitive Substrates

Substrates	
Polybutylenterephtalat	PBT
Polyamide	PA
Polyphenylene sulfide	PPS
Glass-reinforced epoxy/ phenolic laminate sheets	FR4
Metals	
Al	Al, Al MgCu Al Mg^3
Copper	
Steel	
Glass	
Coated display glass	

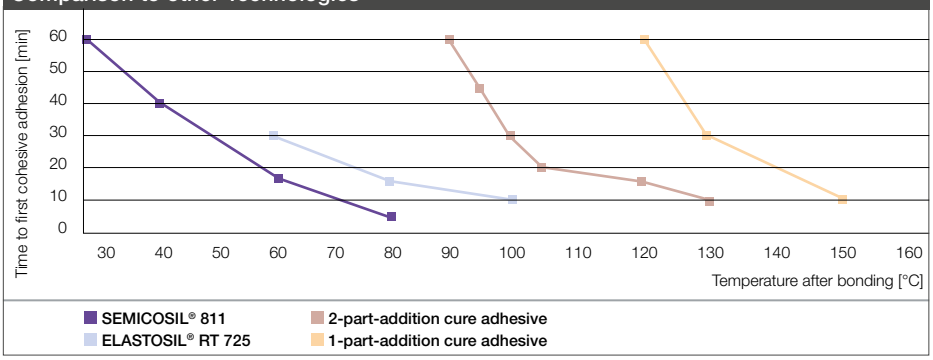
The built-up and adhesion on specific surfaces may differ. Own test to monitor application requirements are recommended



Your Plus: Fast and Efficient Adhesion Built-up

SEMICOSIL® 811 with PT-catalysts ELASTOSIL® CAT PT or with UV-activated ELASTOSIL® CAT UV offers faster adhesion built-up already at room temperatures (45 – 60 min) or at moderate temperatures (< 10 min at 80 °C).
During transport or storage SEMICOSIL® 811 does not require any cooling.

Comparison to other Technologies



SEMICOSIL®

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