

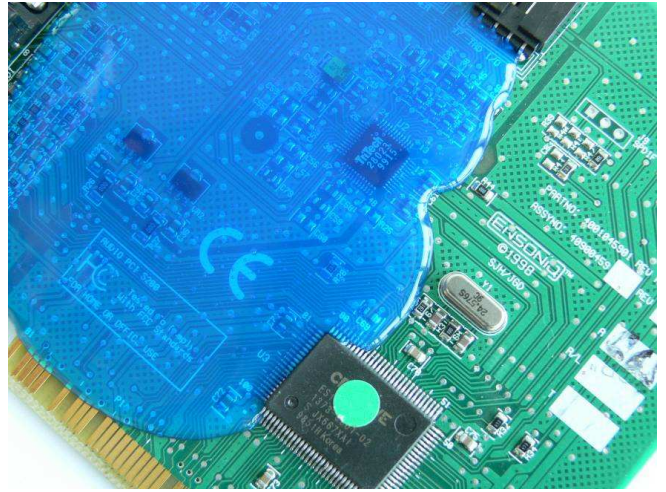
Electro potting compound potting/sealing/bonding

UNIQUE IDEAS. UNIQUE SOLUTIONS



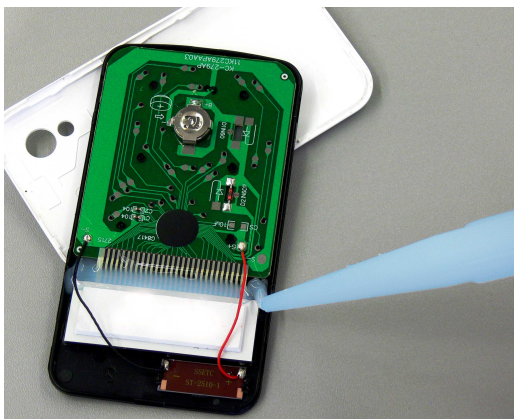
Electro potting

Nowadays, it is impossible to have a survey of the variety of electronic devices and their applications. Important characteristics are the universal use and the flexibility of the devices. The protection from environmental damage becomes more and more important to make the devices more durable. Special silicone elastomers are the best choice to protect the sensitive electronic components for example from temperature, moisture and vibration. The application of room-temperature-vulcanizing silicone elastomers of the CHT/BEZEMA Group for potting guarantees a long-lasting and error-free use of the electronic compounds also under different environmental influences.



Advantages of silicone elastomers

- Fast curing
- Thermostable
- Different hardness
- Protection from wetness and moisture
- Stable to chemicals
- Insulating effect
- Protection from vibrations
- Low heat expansion
- No hazardous goods
- Repairing of expensive electronic components is possible due to the elimination of the potting compound



Application fields of silicone elastomers

- Control devices
- Thermal elements
- LEDs
- Other components

Products for the potting

KÖRAFORM A 69	ALPA-GEL 97156	ALPA-SIL CLEAR
<ul style="list-style-type: none"> ■ High temperature stability from -40°C to +200°C ■ High shore A hardness ■ Low viscosity for an easy potting ■ Self-releasing property ■ Especially suitable for thermal elements 	<ul style="list-style-type: none"> ■ Good temperature stability from -40°C to +180°C ■ Very good adhesion ■ Application at a temperature of at least 120°C ■ Shore A 18 ■ Not oily ■ Fast curing 	<ul style="list-style-type: none"> ■ Good temperature stability from -40°C to +180°C ■ Transparent potting ■ Fast curing ■ Low shore A hardness ■ Self-releasing property ■ Very good stability to chemicals
ALPA-GEL DE	ALPA-GEL K	ALPA-GEL SC
<ul style="list-style-type: none"> ■ Good temperature stability from -40°C to +180°C ■ Low viscosity for an easy potting ■ Almost crystal-clear potting ■ UV stable ■ Flexible potting mass ■ Protection from humidity and vibrations ■ Optimally suitable for components with huge temperature variations ■ IP 68 tested 	<ul style="list-style-type: none"> ■ Good temperature stability from -40 °C to +180°C ■ Not oily ■ Good adhesion properties ■ UV stable ■ Fast curing ■ Flexible potting mass ■ Protection from humidity and vibrations ■ Optimally suitable for components with huge temperature variations ■ Sticky surface 	<ul style="list-style-type: none"> ■ Good temperature stability from -40°C to +180°C ■ Very low viscosity for an easy potting ■ Very good adhesion properties ■ UV stable ■ Flexible potting mass ■ Protection from humidity and vibrations ■ Optimally suitable for components with huge temperature variations ■ Sticky surface

Product for sealing and bonding

ALPATEC 171
<ul style="list-style-type: none"> ■ Highly elastic sealing agent and adhesive ■ Very good stability to weathering and ageing ■ Very good adhesion on many surfaces

Product overview

Name	Appearance		Density ¹⁾ [g/cm] (DIN 53 479)		Viscosity ¹⁾ [mPas]		Mixing ratio (in weight shares)	Potlife ¹⁾	Time of release ¹⁾
	Comp. A	Comp. B	Comp. A	Comp. B	Comp. A	Comp. B	A : B	-	-
KÖRAFORM A 69	Black	Beige	1.38	1.43	1.600	1.300	1:1	24 h	48 - 72 h
ALPA-GEL 97156	Trans- parent	Trans- parent	0.98	0.98	1.000	1.000	1:1	6 h	45 min at 130°C
ALP-SIL CLEAR	Optically clear	Optically clear	0.96	0.96	9.000	9.000	1:1	5 min	30 min
ALPA-GEL DE	Trans- parent	Trans- parent	0.98	0.98	250	4.000	1:1	30 min	6 - 8 h
ALPA-GEL K	Trans- parent	Blue	0.98	0.98	1.000	1.000	1:1	4 min	6 - 8 h
ALPA-GEL 97166	Trans- parent	Trans- parent	0.98	0.98	1.000	1.000	1:1	4 min	6 - 8 h
ALPA-GEL SC	Trans- parent	Trans- parent	0.98	0.98	600	800	1:1	80 min	6 - 8 h

Name	Hardness shore A ²⁾ (DIN 53 505)	Tensile strength ²⁾ (DIN 53 504, S 3 A)	Elongation at break ²⁾ (DIN 53 504, S 3 A)	Penetra- tion ³⁾ (DIN ISO 2137)	Linear shrinking ¹⁾ (after 7 days)	Colour of the vulcanisate	Application
	-	[N/ mm ²]	[%]	[mm/10]	[%]	-	-
KÖRAFORM A 69	64	-	-	-	<0,1	Black	Heating element
ALPA-GEL 97156	18	-	-	-	<0,1	Transparent	Potting of elec- tronic components
ALP-SIL CLEAR	19-21	3	200	-	<0,1	Optically clear	Potting of elec- tronic components
ALPA-GEL DE	-	-	-	43	<0,1	Crystal clear	Potting of components with a mechanical charge and components which are exposed to high temperature variations
ALPA-GEL K	-	-	-	14	<0,1	Blue	
ALPA-GEL 97166	-	-	-	14	<0,1	Transparent	
ALPA-GEL SC	-	-	-	295	<0,1	Crystal clear	

1) Measured under standard climate DIN 50 014-23/50-2

2) Vulcanisate, measured after 14 days of storage under standard climate DIN 50 014-23/50

3) The hardness of silicone gels is determined by means of their penetration power. The greater the penetration the more slightly is the hardness.

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