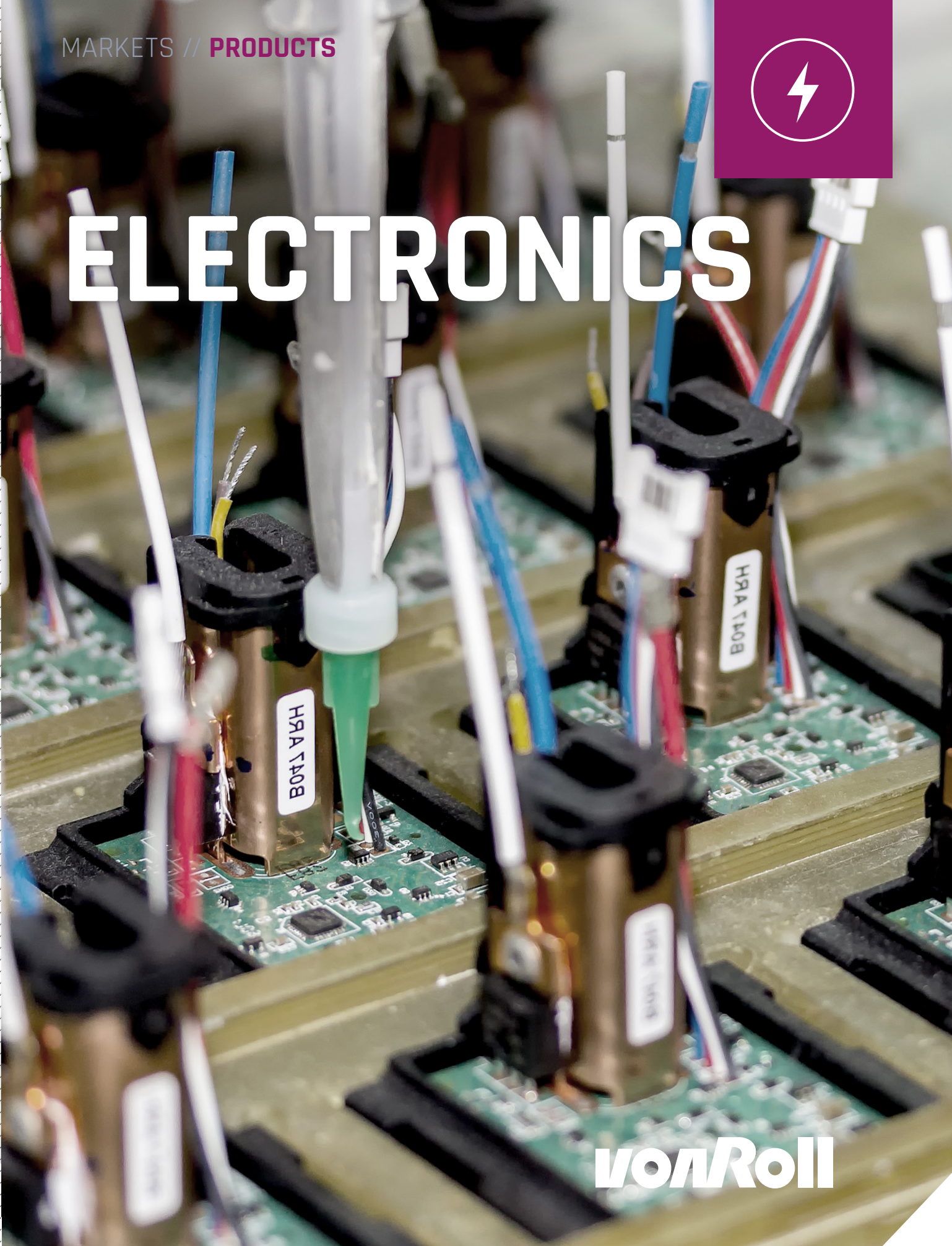




# ELECTRONICS

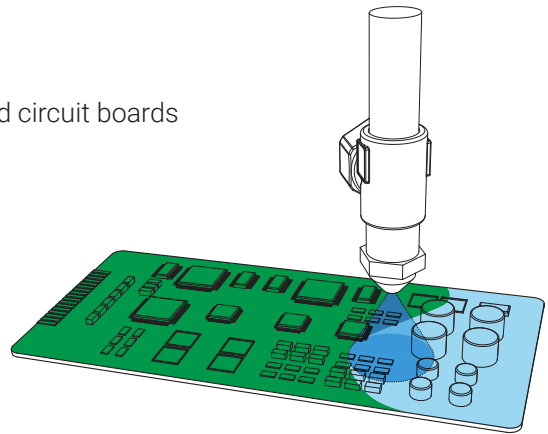


**vonRoll**

## CONFORMAL COATING

### Conformal Coating Synthite®

- + Excellent conformal coating for all types of printed circuit boards
- + Fast drying
- + Versatile application (dip, brush or spray)
- + High temperature
- + Excellent chemical, oil and moisture resistance
- + Superior abrasion resistance
- + Good flexibility
- + UV tracer – visible under black light
- + Excellent adhesion

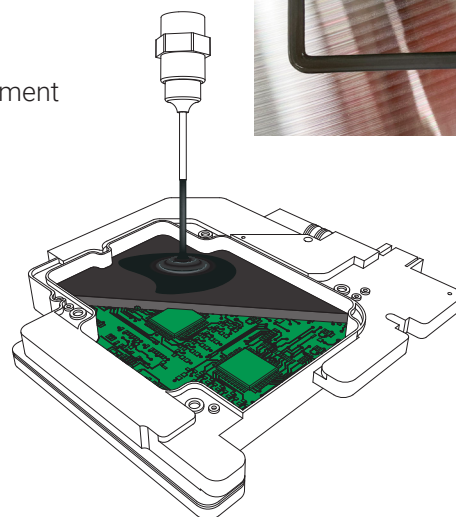


Product Name	Chemistry	Viscosity @25 °C	Operating Temperature	Main Characteristics
Synthite® AC-43	Alkyd-based	50mPas	180 °C	Air drying coating, easy sprayable, high temperature resistant
Synthite® AC 46-1	Polyurethane	300mPas	130 °C	UL 94 & UL 746E approved, excellent adhesion, superior chemical and abrasion resistance, easy sprayable, no aromatic solvents
Damitron® UVC-80	Polyurethane - UV curable	200mPas	130 °C	Very fast process times due UV-curing, superior chemical and abrasion resistance, flexible also at low temperatures

## POTTING & THERMAL INTERFACE MATERIALS

### Dolphon® & Damival®

- + Superior Heat Dissipation
- + Next Generation Backbone Chemistry
- + Low Viscosity
- + High speed production compatible
- + Applicable with Static and Dynamic Mixing Equipment
- + Silicone Free
- + Health & Environmental friendly
- + RoHS and REACH Conform





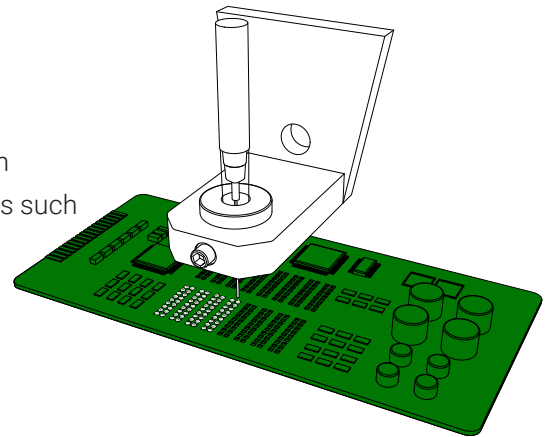
Product Name	Chemistry	Hardness	Mix Viscosity	Operating Temperature	Thermal Conductivity	Main Characteristics
Damival® U510	PU	D40	2350mPas	130 °C	0.6 W/mK	Easy to use PU, cost efficient
Damival® U602	PUBD	A46	5000mPas	150 °C	0.95 W/mK	Good allrounder also possible alternative to silicone. MDI free.
Damival® E110	EP	D85	2000mPas	180 °C	0.8 W/mK	Good thermal shock & crack resistance
Damival® E100	EP	D45	3000mPas	155 °C	0.9 W/mK	Semi-flexible, high resistance against thermal shocks and cycling
Damival® E112	EP	D85	3000mPas	180 °C	1.4 W/mK	Perfect balance between viscosity and thermal conductivity
Damival® U620	PUBD	A80	Paste	150 °C	2.4 W/mK	Thermal Glue with superior Heat Dissipation and very good strength

PU = Polyurethane Chemistry, EP = Epoxy Ambient Temperature Cure, EPHC = Epoxy High Temperature Cure PUBD = Polybutadiene Chemistry, CTE = Coefficient of Thermal Expansion MDI = Standard Aromatic Curing Agent for Polyurethane

## CONDUCTIVE ADHESIVES & COATINGS

### E-Kote, E-Solder

- + Suitable for electronically conductive joints which should be easily applied and provide EMI/RFI protection
- + Good adhesion properties to metals & industrial plastics such as PPO, PS, PC, ABS, PET or PVS
- + Silver and Nickle filled
- + Approved for Aerospace and Military Applications
- + Highly Stable Chemical Matrix
- + NASA Outgassing tested



E-Solder®	E-Kote®	Description	Base	Typical cure schedules	Pot life	Typical sheet resistivity ohm/sq	Typical ohm-cm resistivity	Maximum operating temperature
3012		Thixotropic paste	Epoxy silver		NA		0.0005 @ 25°C	175°C
3022		Paste	Epoxy silver		1 to 2h		0.003 @ 65°C	150°C
3025		Paste	Epoxy silver		4 to 6h		0.004 @ 65°C	150°C
	3030	Paint	Acrylic silver	Air dry		0.2 @ 25°C		175°C
	3063	Paint	Acrylic nickel	Air dry		1 mil 1.5 @ 25°C 2 mil <1.0 @ 25°C		175°C
	3072	Paint	Acrylic graphite	Air dry		3 mil 250 @ 25°C		175°C

As one of the oldest industrial companies in Switzerland, founded in 1803, we focus on products and systems for power generation, transmission and distribution, rotating machines and mechanical engineering. Von Roll is the global market leader for insulation products and the only company to offer the complete range of insulation products, composites, consulting, tests and services for the electrotechnical industry.

For more than 100 years, we have been making outstanding contributions to this market, developing a number of highly innovative products that have enabled both steady increases in power output and smaller and more compact machines.

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