

### All around printed circuit boards

Innovative adhesives and sealants for effective production...

#### System properties

- Conformal Coating
- SMD adhesives
- Glob-top
- Flip-chip underfill
- Silicones
- UV/UV LED lamps
- Dispensing device technology
- Heat sealing/Hot bar soldering/Heat stacking

#### Advantages

- Thermally and electrically conductive
- UV and/or thermally curing
- Isotropic and anisotropic adhesives
- Leading equipment technology
- Expertise from a single source

## Conductive adhesives, die bonding, anisotropic bonding

Panacol-Elosol supplies a range of superior electrically and thermally conductive adhesives.

Its applications range from die bonding, antenna contacting, flip-chips through anisotropic bonds and bonding of heatsinks to HF shielding and 3D-MID.

<b>Elecolit® 6604</b>	Therm. conductive, measuring instrument sensors
<b>Vitalit® 6138</b>	Therm. conductive, die-attach, heatsink bonding
<b>Elecolit® 3653</b>	Electr. conductive, flexible parts bonding
<b>Elecolit® 3043</b>	Electr. conductive, antenna print, ceramic fuses
<b>Elecolit® 3061</b>	Anisotropic, < 10 ppm, LCD, flexible circuits
<b>Elecolit® 3063</b>	Anisotropic, UV-curing, for flexible circuits

## SMD adhesives, flip-chip underfill

Panacol SMD adhesives are ideal for attaching both large and small components on printed circuit boards.

Panacol underfillers are the perfect choice for components such as FC CSPs and FC BGAs for ASICs.

Advantages: fast flow behaviour; spread readily under large chips; no cracking, even after thermal shock.

<b>Vitalit® 6104VT</b>	Mounting large compon. on PCBs, corner bonding
<b>Structalit® 5604</b>	SMD, fast curing, excellent adhesion
<b>Vitalit® 2665</b>	Flip-chip underfill, very low CTE, Nano-Filler
<b>Vitalit® 2675</b>	Flip-chip underfill, high chemical/physical resist.
<b>Vitalit® 2685</b>	Flip-chip underfill, very low shrinkage, ideal for parts subjected to impact testing

## Conformal coating, glob-top, frame & fill

To protect PCBs and chips from environmental factors, Panacol has developed special conformal coatings. These have already been proven in many applications in the automotive, electronics, medical systems and other industries.

Our product expertise also covers glob-top sealants and frame & fill.

<b>Vitalit® 2009 F</b>	Conf. coating, flexible, UV- and thermally curing
<b>Vitalit® 4451</b>	Conf. Coating, foil bonding, low shrinkage
<b>Vitalit® 1691</b>	Glob-top, black, high temperature resistance
<b>Vitalit® 1657</b>	Glob-top, for large/tall parts, thixotropic
<b>Structalit® 5892</b>	Glob-top, black, excellent adhesion
<b>Vitalit® 1671</b>	Frame mass, stable, can be used wet-in-wet
<b>Vitalit® 2583</b>	FiPG, liquid sealant, dry surface, elastic

## Hot bar soldering, heat sealing, heat stacking

Panacol supplies intelligent compatible systems designed specifically for use in LCD and PCB production.

- Optimised production processes for best quality
- Minimised defect rates, low production costs

The design and equipment of each device type can be tailored to customers' specific production requirements. Naturally they can also be integrated within existing production processes.

### Hot-bar soldering machine BL-40i/BL-40S

- Sold. flexible leads, unleaded sold., potential-free sold. irons possible
- Designed for connecting specially sensitive components

### Heat-sealing press HS-40i

- Regulates time, temperature and pressure according to substrate; pulsed heating
- Allows processing at low sealing temperatures

### Heat stacking systems

- Short cycle times, precise temperature input
- Reproducible contours and shaping

## Dispensing

We have the perfect dispensing devices for all your needs – from standard machines to highly specialised equipment. Ideal for precisely dispensing application of various low- and high-viscosity materials. And we also have the suitable accessories.

## UV/UV LED technology

Ideally suited for curing adhesives, coatings, sealants and paints, Hönle UV and UV LED lamps are the ideal addition to our UV products.

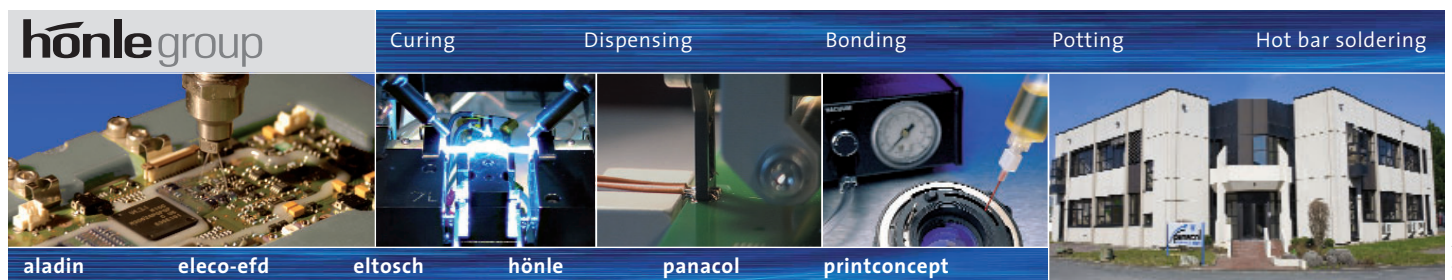
UV LED arrays and UV LED flood lamps: the innovative UV technology that cures without heat generation!

## Momentive silicones

With Momentive Performance Materials – one of the world's most innovative silicone manufacturers – as sales partner, we offer an extensive range of products for many fields of application, including:

- General electronics
- Around printed circuit boards

- Silicone rubber
- Sealing compounds and adhesives
- Emulsions
- Coatings and sealants
- Liquid silicone and gels



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