



### All around the smart card/RFiD

#### System properties

- Chip coating
- Frame & fill
- Conductive adhesives
- Dispensing devices

#### Advantages

- Innovative bonding technology
- Customised solutions
- Designed for specific production requirements
- Tailored system solutions

# Innovative adhesive technology for optimised RFID and Smart Card production

## Smart cards

### Chip coating

#### Vitralit® 1680

- UV- and thermally curing one-component epoxy resin
- High TG, low ionic content
- Low water absorption, good acid resistance
- Low thermal expansion ( $\alpha_1$ )

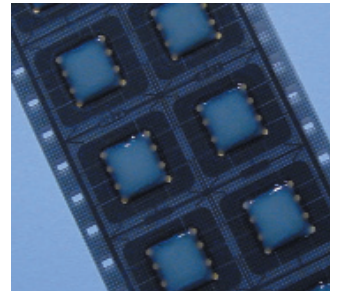
### Frame&fill

#### Vitralit® 1671

- One-component dam material with good edge stability
- UV- and thermally curing at low temperature
- Low ionic content, low water absorption
- Good thermal conductivity

#### Vitralit® 1650

- UV-curing one-component epoxy resin
- Flexible thanks to low TG
- Low ionic content
- Good climatic resistance



**Panacol specials:**  
UV-curing conductive adhesives for antenna printing, adjustable for any application or already optimised

## RFID

### Antenna printing screen printing – offset printing

#### Elecolit® 3043

- Electrically conductive one-component adhesive
- UV-curable
- For surface-mounting on 3D MID
- For screen printing as thick-film paste

### Contacting Die-attach Conductive/Non-conductive

#### Elecolit® 3061

- Viscous, solvent-free conduct. adhes. with silver filler
- Single-component, excellent conductivity
- Good gap-filling capability
- Application with dispenser or by screen printing

#### Elecolit® 3063

- Anisotropic, UV-curing
- For transparent film with printed conductors
- Highly flexible



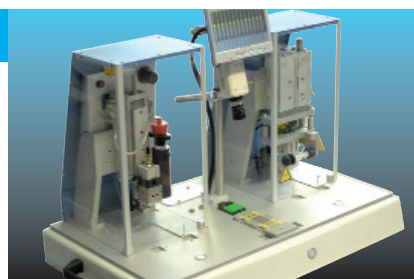
**Panacol specials:**  
“Cold” bonding with UV curing instead of thermal – allows use of cost-effective film!

## Curing

### Hönle UV and UV LED lamps

are ideally suited for curing Panacol adhesives, coatings, sealants and paints.

UV LED: Innovative UV technology for curing without heat exposure!



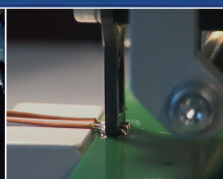
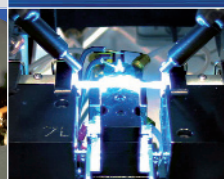
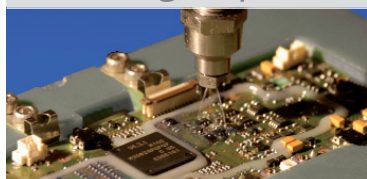
## hönle group

Curing

Dispensing

Bonding

Potting



aladin

eleco-efd

eltosch

hönle

panacol

printconcept



Panacol-Elosol GmbH, Daimlerstr. 8, 61449 Steinbach/Taunus, Germany  
Phone: +49 6171 6202-0, Fax: +49 6171 6202-590. [www.panacol.de](http://www.panacol.de)

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