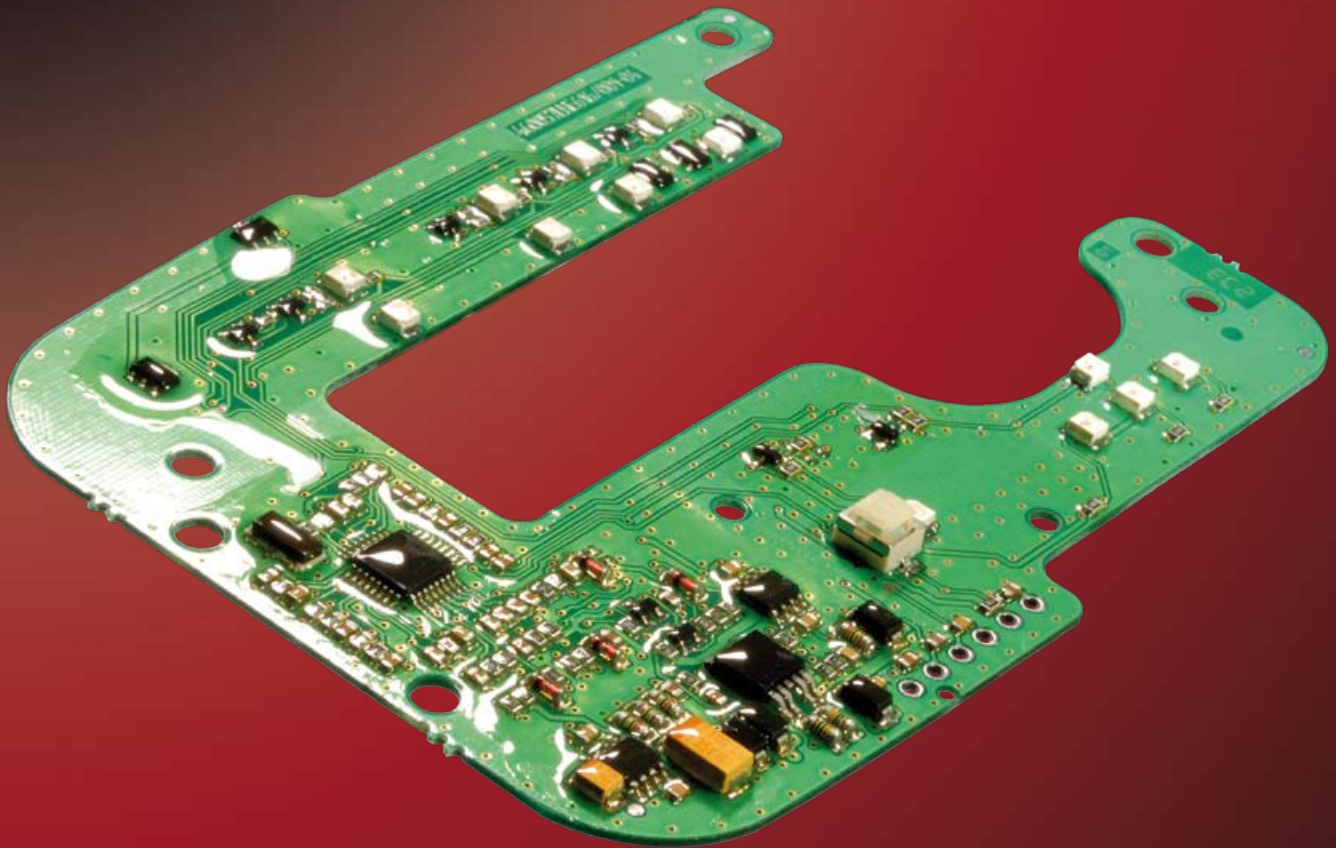


# Thin film

Innovative thin film varnishes



## Thin film coating to protect against environmental impacts and mechanical stress

The thin film varnishes from BECTRON® are suitable for application processes such as spraying, select coat® dip-coating and selective flooding. This type of coating is used for example on printed circuits for automotive and marine technology, printed assemblies in the electronics industry, hybrid and other sensitive electronic components.

### Air drying varnishes

BECTRON® PL 4122 BLF is a product range with a urethane-alkyd base that conforms to the ROHS directive. Due to the excellent film-building properties, even edges of electronic circuits and hybrids are coated uniformly. The product range includes only environmentally friendly aromatic-free solvents.

BECTRON® PL 4122 BLF meets even the very latest requirements of the electronics industry such as low-temperature curing with no PIN corrosion (migration) in the subsequent validation.



### Physically drying varnishes

BECTRON® PL 1100 is an extremely fast drying varnish on an acrylic resin system base. Good protection, especially against moisture, is guaranteed after only 15 minutes at room temperature.

### Water-soluble varnishes

BECTRON® PL 1120 is a modified alkyd coating that is practically VOC-free due to its high water content. Curing is completed within 24 hours at room temperature or faster at higher temperatures.

### UV and/or thermal curing varnishes

BECTRON® EP 5621 is a solvent and VOC-free coating on a modified epoxy resin system base. Its extremely low processing viscosity, unusual for an epoxy, means that all standard varnishing processes can be used. Due to its particularly environmentally friendly properties it can be used in sensitive working environments.

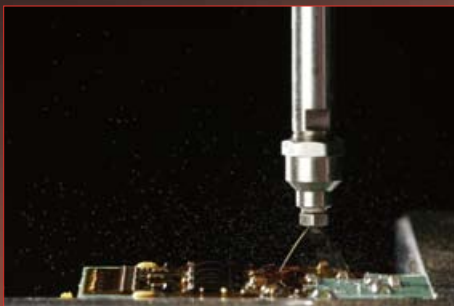
BECTRON® thin film varnishes offer optimum protection against moisture, chemicals, dust, corrosive gases and other sources of contamination.

### Technical benefits of the products when cured

- + High temperature index (135°C-180°C)
- + Excellent dielectric properties
- + Protection against aggressive environmental stresses
- + Very good chemical resistance
- + Outstanding adhesion to printed circuits  
even after several temperature cycles of between -40 to +140°C

### Fields of application

- + ABS
- + Light modules
- + Electronic control units
- + Anti-theft devices
- + Power window actuators
- + Measuring and control electronics
- + Electronics for marine applications
- + Airbag modules
- + Angle sensors
- + Central locking systems
- + Electronics for air conditioning
- + Electronics in weapon systems
- + Electronics exposed to adverse environments
- + Building automation
- + HF modules



**Werner Wirth Systems GmbH**  
Hellgrundweg 111  
22525 Hamburg  
Germany

Tel +49 (0)40 878 86 89-0  
Fax +49 (0)40 878 86 89-26

systems@wernerwirth.de  
www.ww-systems.de