

Thick film

Thermal curing thick film varnishes



Thick film coatings

Thermal curing

The BECTRON[®] PK product range is a one-component resin system that cures to form elastic, dimensionally stable plastics. This resin series is based on polyurethane technology and has a chemically integrated curing system.

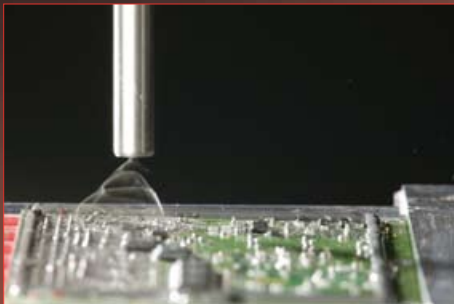
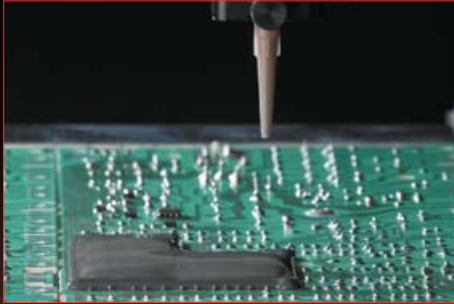
The material is available in different viscosities to suit the respective applications. Curing takes place at a temperature of at least 80°C or by means of infrared radiation. It is available in different degrees of hardness (elasticity) that can be aligned to the respective applications. A high degree of elasticity, good adhesion and resistance to fluctuations in temperature are properties that characterise the cured material.

In contrast to standard two-component resin systems, the BECTRON[®] PK series comes ready for use. The outstanding features of this material are its exceptionally high level of environmental friendliness and its safety in use due to the fact that it is not a hazardous material.



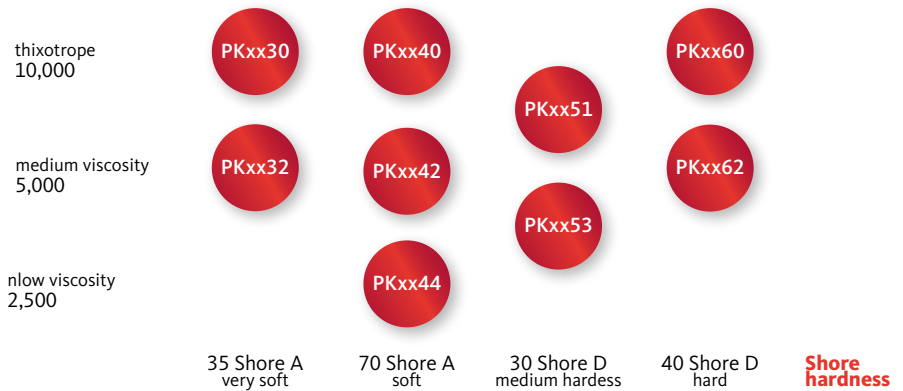
The BECTRON® PK 55xx series is an enhancement of the well-known PK 43 series. The PK 55 series can be used at temperatures of up to 150°C. The materials exhibit very good temperature cycle behaviour and high resistance to vibration. Even in thick layers they show practically no crack formation.

The types of compound in the PK resin series with their low viscosity are used primarily for printed circuits or hybrids. They have excellent properties, even if applied in relatively thin layers. The thixotropic settings can, for example, be used for selective protection of small components on circuit boards. The combination of both facilitates dam-and fill applications “wet-in-wet” with only one curing cycle.



BECTRON® PK XX thick film coating matrix

Viskosität (mPas)



Benefits

- + One-component system / ready to use
- + VOC-free / 100% solid
- + Environmentally friendly / not a hazardous material
- + Good temperature cycle behaviour
- + Glass transition temperature $T_g < -60^\circ\text{C}$
- + Good shock absorption

Fields of application

- + Central locking systems
- + Ultrasonic distance sensors
- + Electronic controls
- + Dynamic suspension control
- + Headlight/parking sensor system
- + Pedal conversion
- + Safety belt sensors/ airbag sensors
- + Water gauge sensors

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