

EPOXONIC®



Low viscosity, heat conductive potting compound for demanding industrial applications

EPOXONIC® 342 is a solvent-free, 2-part potting compound based on epoxy resin.

Main characteristics:

Long pot life
Low viscosity
Excellent crack resistance
Moderate curing temperature

Application:

EPOXONIC® 342 is especially suited for potting of large electrical devices with high requirements for crack resistance at lower temperatures.

Properties:

Specific values measured by standard test specimen at 23 °C, cured 6 h / 60 °C and 4 h / 80 °C.

Operating temperature 1)	-40 °C to +150 °C	
Colour	grey	
Shore hardness	90 Shore D	DIN EN ISO 868
Density	1.5 g/cm ³	DIN EN ISO 1183-1
Glass transition temperature	65 – 75 °C	DIN EN ISO 11357-2
Coefficient of linear thermal expansion CTE	45 x 10 ⁻⁶ /K (40 – 60 °C)	DIN EN ISO 11359-2
Thermal conductivity	0.5 W/mK	DIN EN ISO 8894-1
Tensile strength	95 MPa	DIN EN ISO 527
E-modulus	10,000 MPa	DIN EN ISO 527
Elongation at break	1.7 %	DIN EN ISO 527
Flexural strength	135 MPa	DIN EN ISO 178

¹⁾ Depending on the application, other temperature limits may be reasonable



Processing:

Mix ratio		Part A: Part B = 100: 14.4 parts by weight
Viscosity cone/plate viscometer		50,000 - 70,000 mPas (Part A) 20 - 50 mPas (Part B) 1,500 - 2,500 mPas (Part A + B) 200 - 300 mPas (Part A + B) 100 - 200 mPas (Part A + B)
Pot life	25 °C	> 5 h (time to double viscosity, 100g batch)
Method of application		e.g. dispenser
Cure schedule		e.g. 6 h / 60 °C + 4 h / 80 °C Optimum cure schedules have to be determined by the specific application.

Storage:

The shelf life of EPOXONIC® 342 Part A and Part B is 12 months at temperatures at 15 – 25 °C when stored in tightly closed, original containers.

Part A has to be stirred very well before use and may crystallize after longer periods of time resp. storage at lower temperatures or high temperature changes. If crystallization occurs, this can be removed by heating up to 50 – 60 °C and stirring.

Partly emptied containers should be tightly closed immediately after use.

Packaging:

EPOXONIC® 342 Part A is delivered in hobbocks. Part B is delivered in metal cans. Other packaging options are available upon request.

Health and Safety:

Recommended industrial hygiene procedures should always be followed when handling this product. Please refer to the corresponding Material Safety Data Sheet for details.

Quality Assurance:

If required EPOXONIC® 342 will be supplied with a Certificate of Analysis.

Disclaimer:

All information herein is based on the present state of knowledge and believed to be reliable. Any suggestions or recommendations are made without liability on our part since we shall have no control over the use of our product. Buyers and users should make their own assessment of this product under their own conditions and for their own requirements.