

EPOXONIC® 341

Low viscosity, heat conductive
potting compound for
demanding industrial applications

EPOXONIC® 341 is a solvent-free, mineral filled
2-part potting compound based on epoxy resin.

Main characteristics:

- Long pot life
- Excellent crack resistance
- Excellent flow behaviour
- Ambient curing temperature

Application:

EPOXONIC® 341 is especially suited for potting of large electrical devices with special requirements for crack resistance at low temperatures.

Properties:

Specific values measured by standard test specimen at 23 °C, cured 24 h / 23 °C and 16 h / 80 °C.

| | | |
|---|--|--------------------|
| Operating temperature ¹⁾ | -40 °C to +150 °C | |
| Colour | beige | |
| Shore hardness | 91 Shore D | DIN EN ISO 868 |
| Density | 2.2 g/cm ³ | DIN EN ISO 1183-1 |
| Coefficient of linear thermal expansion CTE | 40 – 50 x 10 ⁻⁶ /K (40 - 60 °C) | DIN EN ISO 11359-2 |
| Glass transition temperature | 65 – 75 °C | DIN EN ISO 11357-2 |
| Thermal conductivity | 1.3 W/mK | DIN EN ISO 8894-1 |
| Tensile strength | 65 MPa | DIN EN ISO 527 |
| E-modulus | 12,000 MPa | DIN EN ISO 527 |
| Elongation at break | 0.6 % | DIN EN ISO 527 |
| Flexural strength | 115 MPa | DIN EN ISO 178 |
| Outer fibre strain at break | 1.5 % | DIN EN ISO 178 |

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

Processing:

| | | |
|------------------------------------|---|--|
| Mix ratio | Part A : Part B = 100 : 9 parts by weight | |
| Viscosity cone/plate viscometer | 25 °C | 40,000 – 60,000 mPas (Part A) |
| | 25 °C | 20 – 50 mPas (Part B) |
| | 25 °C | 1,500 – 2,500 mPas (Mixture A + B) |
| Pot life | 25 °C | > 5 h (time to double viscosity, 100g batch) |
| Method of application | e.g. dispenser | |
| Cure schedule | e.g. 24 h / 23 °C + 16 h / 80 °C Optimum cure schedules have to be determined by the specific application. | |

Storage:

The shelf life of EPOXONIC® 341 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® 341 Part A is delivered in hobbocks. Part B is delivered in metal cans. Other packaging options are available upon request.

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.

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® 341 will be supplied with a Certificate of Analysis.