

Technical Data Sheet

EPIKOTE™ Resin 816

Product Description

EPIKOTE Resin 816 is a low viscosity epoxy resin produced from bisphenol A and epichlorohydrin, and containing an added proportion of Cardura E10P (glycidyl ester of neodecanoic acid) as a reactive diluent. EPIKOTE 816 is of low volatility and mild odour, which gives the resin its agreeable handling characteristics. EPIKOTE 816 provides good pigment wetting and good resistance to filler settling. As judged by laboratory tests, EPIKOTE 816 is considered to have a moderate resistance to crystallisation on storage.

Application Areas/Suggested Uses

Compositions for the building and civil engineering industries, e.g. flooring compounds, adhesives, mortars and grouts, laminating binders. Solvent-free and high-solids coatings.

Benefits

- Low viscosity
- Low volatility
- Good resistance for crystallization
- Excellent pigment/filler and substrate wetting
- Imparts good mechanical performance

Sales Specifications

| Property | Value | Unit | Test Method |
|---------------------|-------------|---------|-------------|
| Color | 200 max | Pt-Co | ASTMD1209 |
| Epoxy Group Content | 5000 - 5300 | mmol/kg | SMS 2026 |
| Viscosity at 25°C | 1,5 - 2,1 | Pa.s | ASTMD445 |

Typical Properties

EPIKOTE Resin 816

<https://www.hexion.com/en-US/product/epikote-resin-816>

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| Property | Value | Unit | Test Method |
|------------------|-----------|---------------|-------------|
| Density at 25°C | 1.13 | kg/L | ASTMD4052 |
| Epoxy Equivalent | 189 - 200 | g/equivalent* | SMS 2026 |
| Viscosity 10°C | 16.00 | Pa.s | ASTMD445 |
| Viscosity 15°C | 6.29 | Pa.s | ASTMD445 |
| Viscosity 20°C | 3.80 | Pa.s | ASTMD445 |
| Viscosity 25°C | 1.61 | Pa.s | ASTMD445 |
| Viscosity 30°C | 1.20 | Pa.s | ASTMD-445 |
| Viscosity 35°C | 0.85 | Pa.s | ASTMD445 |
| Viscosity 40°C | 0.48 | Pa.s | ASTMD445 |

*number of grams of resin containing 1 equivalent of epoxide (Weight per equivalent, WPE, is an alternative term).

Safety, Storage & Handling

Please refer to the MSDS for the most current Safety and Handling information.

EPIKOTE Resin 816 should be stored at room temperature in conditions such that moisture is excluded, in the original containers kept tightly closed. Under these conditions the shelf life should be a minimum of three years from date of certification.