

Technical Data Sheet

EPIKOTE™ Resin 862

Product Description

EPIKOTE Resin 862 is a low viscosity epoxy resin produced from bisphenol F resin and epichlorohydrin. It contains no diluent. EPIKOTE 862 provides good pigment wetting and good resistance to filler settling. As judged by laboratory tests, (see bulletin EK 1.5.11 for a description of the test method) EPIKOTE 862 is considered to be prone to crystallisation on storage, particularly at low temperatures.

Application Areas/Suggested Uses

EPIKOTE 862 may be used alone or in mixture with other liquid EPIKOTE resins, e.g. EPIKOTE 828. In this latter instance, it provides a means of reducing viscosity and also of conferring a degree of crystallisation resistance to the resin blend. Typical uses include compositions for the building and civil engineering industries (e.g. flooring compounds, adhesives, mortars and grouts), filament winding for composites, electrical castings, solvent-free and high solids coatings. EPIKOTE 862 may be used alone or in mixture with other liquid EPIKOTE resins, e.g. EPIKOTE 828. In this latter instance, it provides a means of reducing viscosity and also of conferring a degree of crystallisation resistance to the resin blend. Typical uses include compositions for the building and civil engineering industries (e.g. flooring compounds, adhesives, mortars and grouts), filament winding for composites, electrical castings, solvent-free and high solids coatings.

Benefits

- Low viscosity without diluent
- Imparts high mechanical performance
- Imparts high resistance against crystallisation when blended with EPIKOTE 828 type resin
- Imparts good chemical resistance
- Good pigment wetting
- Good resistance to pigment settling

Sales Specifications

Property	Value	Unit	Test Method
Colour	100 max	Pt-Co	ASTMD1209
Epoxy Group Content	5780 - 6060	mmol/kg	SMS 2026
Viscosity at 25°C	2.5 - 4.5	Pa.s*	ASTMD445

* 1 Pa.s = 10 Poise

Typical Properties

EPIKOTE Resin 862
<https://www.hexion.com/en-US/product/epikote-resin-862>

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Property	Value	Unit	Test Method
Density at 25°C	1.18	kg/L	ASTMD4052
Epoxy Molar Mass*	165 - 173	g/eq	SMS 2026
Flash Point (PMCC)	>150	°C	ASTMD93
Viscosity 20°C	7.4	Pa.s	
Viscosity 30°C	1.6	Pa.s	
Viscosity 40°C	0.52	Pa.s	
Viscosity 50°C	0.20	Pa.s	

*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 862 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.

If EPIKOTE 862 develops haziness or crystallises on storage. This can be dispersed and the resin restored to its original condition by warming to 55 – 65°C, with stirring.