



Technical Data Sheet

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EPOCHEM 105 Resin

Product Description

EPOCHEM 105 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. EPOCHEM 105 is of low volatility and mild odour, which gives the resin its agreeable handling characteristics. EPOCHEM 105 provides good pigment wetting and good resistance to filler settling. As judged by laboratory tests, EPOCHEM 105 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 Specification

Property	Unit	Value	Test Method/Standard
Epoxy group content	mmol/kg	5000-5300	SMS 2026
Viscosity at 25°C	Pa.s	1.5-2.1	ASTM D445
Colour	Pt-Co	200 max	ASTM D1209

Typical Properties

Property	Unit	Target Value	Test Method/Standard
Epoxy equivalent	g/equivalent*	189-200	SMS 2026
Density at 25°C	kg/l	1.13	ASTM D4052
Viscosity			ASTM D445
10°C	Pa.s	16.00	
15°C	Pa.s	6.29	
20°C	Pa.s	3.80	
25°C	Pa.s	1.61	
30°C	Pa.s	1.20	
35°C	Pa.s	0.85	
40°C	Pa.s	0.48	

* 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.

EPOCHEM 105 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.

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