



D.E.R.™ 916 Epoxy Resin

Description D.E.R.™ 916 Epoxy Resin is a modified, semi-solid, epoxy novolac resin emulsified in water.

Benefits D.E.R.™ 916 Epoxy Novolac Emulsion consists of D.E.N.™ 438™ Epoxy Novolac Resin emulsified in water. D.E.R.™ 916 offers low average particle size and narrow particle size distribution which allows good storage stability and excellent film formation without solvents and/or diluents. The resin has an average epoxy functionality of 3.6. This emulsion is designed for use in two-pack, epoxy binder systems thinned with water for high performance, highly chemically resistant coatings. These systems, used mainly for coatings, are an alternative to equivalent solvent-borne polyamide/polyaminecured coatings when high solvent content is undesirable.

Aqueous epoxy binder systems are used in paints for coating steel in confined spaces, marine paints, protective coatings that can be applied to damp surfaces such as concrete or other non-metallic substrates, water-based mortars, patching compounds, cementitious floorings and for water-proofing structures to improve chemical resistance and upgrade overall performance.

- Applications**
- Building & Civil Engineering: Mortars & Grouts
 - Building & Civil Engineering: Primers & Impregnation
 - Building & Civil Engineering: Roller Coating Flooring
 - Building & Civil Engineering: Self-leveling Flooring
 - Industrial Coatings: Marine and Protective

Dow Epoxy	Nominal Value	Unit	Test Method
EEW (Based on solids)	184 to 204	g/eq	ASTM D1652
Viscosity, absolute (25°C)	5000 to 10000	mPa·s	ASTM D2196
Solids Content	57 to 59	%	ASTM D2369

Notes

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

Safety Considerations

The Dow Chemical Company provides its customers with a product specific Material Safety Data Sheet (MSDS) or Safety Data Sheet (SDS) to cover potential health effects, safe handling, storage, use and disposal information. Dow strongly encourages its customers to review the MSDS or SDS on its products and other materials prior to their use.

For further handling information, consult the Dow brochure entitled, DOW Epoxy Curing Agents Product Stewardship Manual, Safe Handling and Storage, Form No. 296-01331 and the Dow technical bulletin, Product Coding, Shelf-life and Storage Stability, Form No. 296-01657.

Product Stewardship

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- use as a critical component in medical devices that support or sustain human life; or
- use specifically by pregnant women or in applications designed specifically to promote or interfere with human reproduction.

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