

Technical Data Sheet

EPI-REZ™ Resin 3516-WD-60

Product Description

EPI-REZ Resin 3516-WD-60 is a moderate viscosity, non-ionic, aqueous dispersion of a bisphenol A epoxy resin. EPI-REZ Resin 3516-WD-60 is supplied at typically 60 percent solids and is mechanically stable.

Application Areas/Suggested Uses

EPI-REZ Resin 3516-WD-60 is designed for use in waterborne formulations of for example:

- Industrial textile binders of fibre finishes
- Adhesives
- Fibre sizings
- Varnishes.

It can also be incorporated into formulations which are traditionally water-based and which require good strength and outstanding chemical or water resistance. EPI-REZ Resin 3516-WD-60 is used to modify polymer lattices, especially those containing sufficient amine or carboxyl functionality to react with available epoxy groups.

EPI-REZ Resin 3516-WD-60 can be cured with many of the same curing agents that are used with liquid or solution epoxy resins. Curing agents most conveniently employed are those which are water soluble or dispersible and which are stable in an aqueous medium. Examples of such curing agents include dicyandiamide, substituted imidazoles, aliphatic and aromatic amines and various EPIKURE Curing agents.

When applied at room temperature, EPI-REZ Resin 3516-WD-60 coalesces to form a clear, continuous, tacky film after evaporation of the water.

Benefits

- High epoxy functionality
- Water reducible, providing wide latitude for viscosity reduction
- Imparts good chemical and water resistance properties
- Compatible with most synthetic polymer lattices
- Curable with most water soluble curing agents

Sales Specifications

Property	Value	Unit	Test Method
Epoxy Group Content	3420 - 3825	mmol/kg	ASTMD1652
Particle Size D_{10} , D_v (Vol Mean)	0.5	μm	SRC-1
pH	3 - 6		ASTME70
Solids	60 - 63	% m/m	ASTMD1259
Viscosity* at 25°C	1000 - 8000	mPa.s	ASTMD2196

* Brookfield

Typical Properties

EPI-REZ Resin 3516-WD-60
<https://www.hexion.com/en-US/product/epi-rez-resin-3516-wd-60>

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Property	Value	Unit	Test Method
Density at 25°C	1.1	kg/L	ASTMD4052
Epoxy Equivalent	260 - 295	g/eq*	ASTMD1652

Solvent Water and diacetone alcohol

* 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.

EPI-REZ Resin 3516-WD-60 should be stored in tightly sealed containers in a dry location at temperatures between 10 and 38°C. Under these conditions the shelf life should be a minimum of one year from date of certification. Elevated temperatures or freezing conditions will accelerate particle settling which will require re-dispersion with moderate agitation. Do not allow the product to freeze.

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