

Product Bulletin

Coatings

NextGen Epoxy™
Waterborne System for
Ultra-Low VOC Coatings

EPI-REZ™ 7520-WD-52 Resin and
Research Curing Agent RSC-4431



EPI-REZ Resin 7520-WD-52 is a low VOC, solid epoxy resin dispersion that provides a range of properties comparable to traditional solvent-borne systems. Research Curing Agent RSC-4431 is a solvent-free curing agent supplied as a water-reducible aqueous solution. The combination of these two products forms the NextGen Epoxy waterborne system, designed for use in concrete floor coatings or as a protective coating for metal substrates. This system provides an applied cost that is more cost-competitive than that of traditional waterborne epoxy systems.

Features

- Ultra-low VOC (<50 g/L for concrete and <100 g/L for metal)
- Extended pot life (5 hours with good gloss)
- High gloss, fast dry and cure times
- Superior corrosion resistance (1000 hours salt spray at 3-4 mils DFT)
- Low amine hydrogen equivalent weight (AHEW)
- Improved balance of cost & performance
- Superior freeze/thaw stability (Passes 3+ Cycles; -5 °C to 23 °C)

Formulation and Performance

Research Curing Agent RSC-4431 can be diluted up to 50% by weight with water to form a clear to hazy solution. Amount of dilution and resultant component stability should be validated by the formulator.

The NextGen Epoxy waterborne system (EPI-REZ Resin 7520-WD-52 and Research Curing Agent RSC-4431) can be formulated to meet stringent VOC regulations in concrete or metal coatings. This system offers a more cost competitive, waterborne alternative to traditional solvent-based, two-component epoxy systems with equivalent performance.

Physical Properties

Product	% Wt. Solids	Viscosity, cP	Solvent Content, % wt	Equivalent Weight, g/eq
EPI-REZ 7520-WD-52	51 – 53	1,000 – 6,000	5	475 – 575 (BoS)
Research Curing Agent RSC-4431	73 – 77	6,000 – 13,000	0	120 (as supplied)

Applications

- Railway Coatings
- Concrete Coatings for floors, walls and garages
- Industrial Maintenance Coatings for metal
- Automotive Parts and Accessories

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