
Hex-3R Epoxy 301™

The Hex-3R® Composite Strengthening Systems provide construction industry professionals with a viable alternative to traditional methods through the application of composite materials science. This carefully designed portfolio of high strength, high modulus, externally applied reinforcing elements represent a cost-effective and efficient alternative to strengthen or stiffen a structure without resorting to remove and replace methods or invasive internal rebuilding techniques.

Hex-3R Epoxy 301™ is a two-component ambient cure thickened epoxy system.

Where to Use

- ❑ For use as a finish coating over the Hex-3R™ System.
- ❑ Hex-3R Epoxy 301 is used as a surfacing coat for either horizontal or vertical applications.

Advantages

- ❑ Long pot life
- ❑ Pre-measured, easy to mix
- ❑ Tolerant of moisture before, during and after cure
- ❑ High strength, high modulus
- ❑ Excellent adhesion to concrete, masonry, wood and most structural materials
- ❑ Fully compatible with the Hex-3R™ System

Hex-3R Epoxy 301 Design and Mechanical Properties (neat resin)

Chemical Characteristic	Value
Heat Deflection Temperature (HDT)	170°F
Application and Cure Temperature Range	50° - 100°F
Pot Life	4 hours at 70°F
Cure Time	48 hours at 70°F
Gel Time	20 hours at 70°F
Viscosity	20,140 cps at 72°F
Glass Transition Temperature (Tg) DMTA	174°F after 48 hour, 140°F postcure

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Hex-3R Epoxy 301 Design and Mechanical Properties (continued)

Mechanical Property	Value	ASTM Test Method
Tensile Strength	10,500 psi	D638
Tensile Modulus	459,000 psi	D638
Elongation at Failure	4.8%	D638
Flexural Strength	17,900 psi	D790
Flexural Modulus	452,000 psi	D790
Specific Gravity (cured)	1.16 gm/cm ³	D792



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