



# 747 Epoxy Resin

Gateway Composites 747 is a two-component, high strength, high modulus epoxy resin system used as the primer and saturant for Gateway Composites carbon fiber systems and kits (FIBERLOCK™ and private label brands). 747 Resin is combined with carbon, glass and basalt fabrics for wet-layup composites providing strengthening and reinforcement to structural members.

## APPLICATIONS

Corrosion Repair	Load Upgrade
Blast Mitigation	Seismic Retrofit
Crack Repair	Marine Repair

## FEATURES

VOC Compliant	Ambient Cure
Superior Fabric Wet-Out	Solvent Free
Superior Bond Strength	Pot Life Choice

## SUBSTRATES

Concrete	Masonry	Wood	Steel
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## STRUCTURES

Tanks	Bridges	Parking Garage
Buildings	Tunnels	Silos
Piers/Pilings	Precast	Cell Towers
Foundation Walls	Patios	Driveways

## PACKAGING & MIX RATIO

Part A Base Resin - 3:1	Part B Hardener - 1:3
1 US Gal Jug	43 oz Jug
5 US Gal Pail	1 US Gal Jug

## SHELF LIFE & STORAGE

2 years in unopened container  
Store in a cool dry place at 50-90°F.  
Condition to 70-80°F for 24 hours prior to use.

## MATERIAL PROPERTIES

Color:	1
Viscosity:	400-500 cps
Pot Life - Standard Part B:	30 minutes
Pot Life - Long Part B:	60 minutes

## CURED EPOXY PROPERTIES

Tensile Strength:	11,200 psi
Tensile Modulus:	470,000 psi
Flexible Strength:	13,700 psi
Flexible Modulus:	530,000 psi
Elongation:	2.7%

## Preparation & Handling

- Always prepare surface prior to application. Surface must be clean, free of protrusions and voids for optimal bonding.
- Mix no more resin than can be applied within the work period.
- Apply when ambient temperature is 45-95°F.

## Safety

- Keep resin away from direct sunlight, flame or other hazards.
- Part "A" may cause eye/and or skin irritation.
- Part "B" is corrosive. Severe irritation to eyes, throat and skin.
- Wear protective gloves/clothing/eye and face protection. Do not breathe vapors. Keep off skin and out of eyes. Keep container closed when not in use. Use only with adequate ventilation. Wash thoroughly after handling.
- Review SDS for First Aid information.
- Spills and Leaks: Collect using non-reactive absorbent and place in sealable container for proper disposal.
- Resin creates vapor barrier after cure.

Cured Epoxy Properties are typical and to be used by technically skilled persons at their own discretion and risk. The properties do not constitute any warranty or guarantee. All values are for material selection purposes only. The customer must determine suitability of any information or material for any contemplated use and assumes all risk. Gateway Composites products are warranted to be free from material defects. Buyer's sole remedy shall be limited to replacement of product and excludes labor or the cost of labor. All design calculations must be made and certified by an independent licensed professional engineer. Review SDS documents prior to use for complete safety information.

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