

VELOXX LR

**EDGE
STRUCTURAL
COMPOSITES****GENERAL PURPOSE TWO-PHASE EPOXY LAMINATING RESIN FOR THE FIBER-BOND™ STRENGTHENING SYSTEMS**

DESCRIPTION

Veloxx LR is a two-component, 100% solids, two-phase, epoxy used for impregnating FiberBond™ dry sheet products.

Veloxx LR is a patented, ICBO/ICC-ES approved (ER #5836) part of the FiberBond™ Strengthening System, a highly engineered product for the external strengthening of concrete and masonry structures.



GENERAL INFORMATION

Color	Green (Part A) Amber (Part B) Green (Mixed)
Storage Conditions	Store in a dry place at 40-90° F (4-32° C) out of direct sunlight.
Shelf Life	12 months in original, unopened container.

PHYSICAL PROPERTIES

Mixed Viscosity	20,000 cps @ 50° F (10° C) 2,200 cps @ 77° F (25° C)
Pot Life (1 gallon unit)	180 minutes @ 50° F (10° C) 45 minutes @ 77° F (25° C) 20 minutes @ 90° F (32° C)
Mix Ratio	100A : 62B (by weight) 100A : 70B (by volume)
T _g	145° F 63° C

MECHANICAL PROPERTIES⁽¹⁾

Tensile Strength (ASTM D638)	6,500 psi	44.8 MPa
Tensile Modulus (ASTM D638)	300 psi x 10 ³	2,068 MPa
Elongation at Failure (ASTM D638)	5.5 %	5.5 %
Hardness (Shore D)	77	
Compressive Strength (ASTM D695)	10.3 ksi	71 MPa
Compressive Modulus (ASTM D695)	290 ksi	2000 MPa
Shear Bond Strength	2.189 ksi	15.01 MPa

Notes: (1) Neat resin properties measured at 7 days unless noted otherwise.

TYPICAL USES

- **Veloxx LR** can be used for machine or hand impregnation of FiberBond™ sheets.

ADVANTAGES

- Developed specifically for the FiberBond™ Strengthening System for concrete and masonry structures.
- Fully compatible with **Veloxx LVP** Low Viscosity Primer and **Veloxx AP** Adhesive Paste.
- Long pot life.
- Easy to mix.
- Excellent adhesion to concrete and masonry materials.
- Solvent free, VOC compliant.
- Minimum substrate and ambient temperature is 40° F.

PACKAGING

- Available in 1, 5 and 55 gallon units.

STORAGE AND HANDLING

- Store in a dry area at 40 - 90° F (4 - 32° C) away from direct sunlight, flame, or other hazards. When properly stored the product has an indefinite shelf life.

INSTALLATION

- Detailed installation procedures for **Veloxx LR** are outlined in the FiberBond™ Installation Manual.
- Installation of **Veloxx LR** should only be performed by contractors trained and certified by EDGE STRUCTURAL COMPOSITES.

SAFETY

- Product material safety data sheets (MSDS) should be consulted during application of or when handling this product.

RELATED PRODUCTS

The following products are typically used with **Veloxx LR**:

- **Veloxx LVP** Low Viscosity Primer
- **Veloxx AP** Adhesive Paste/Filler
- **Velacoat** Top Coats
- **Velanchor** Anchors
- **Velacarb XXX** Carbon Fiber Sheets
- **Velaglass XXX** Glass Fiber Sheets

DISCLAIMER/WARRANTY STATEMENT

Data reported are based on testing conducted at independent testing agencies. EDGE STRUCTURAL COMPOSITES reserves the right to change or modify, at its discretion, and without prior notice, any of the information contained in this document.

EDGE STRUCTURAL COMPOSITES warrants this product to free of manufacturing defects and that it will meet the current published properties when applied per EDGE's installation procedure and tested in accordance with ASTM standards. The user determines the suitability for use of this product assumes all risk associated with its use.

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