

# VELOXX AP

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

## DESCRIPTION

**Veloxx AP** is a two-component, 100% solids, two-phase, epoxy paste used for bonding and filling voids prior to application of the Fiber-Bond™ Strengthening System.

**Veloxx AP** 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	Gray (Part A) Beige (Part B) Gray (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	500,000 cps @ 50° F (10° C) 150,000 cps @ 77° F (25° C)
Pot Life (1 gallon unit)	100 minutes @ 50° F (10° C) 30 minutes @ 77° F (25° C) 15 minutes @ 90° F (32° C)
Mix Ratio	100A : 38B (by weight) 10A : 4B (by volume)
T <sub>g</sub>	130° F 54° C

## MECHANICAL PROPERTIES<sup>(1)</sup>

Tensile Strength (ASTM D638)	8,000 psi
Tensile Modulus (ASTM D638)	400 psi x 10 <sup>3</sup>
Elongation at Failure (ASTM D638)	3.0 %
Hardness (Shore D)	87
Compressive Strength (ASTM D695)	12 ksi
Compressive Modulus (ASTM D695)	380 ksi
Shear Bond Strength	2.4 ksi

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

**TYPICAL USES**

- **Veloxx AP** can be used to bond pre-cured structural elements or to fill voids and minor surface imperfections. **Veloxx AP** is typically hand applied using a metal or plastic trowel.

**ADVANTAGES**

- Developed specifically for the FiberBond™ Strengthening System for concrete and masonry structures.
- Fully compatible with **Veloxx LR** Laminating Resin and **Veloxx LVP** Low Velocity Primer.
- 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 AP** are outlined in the FiberBond™ Installation Manual.
- Installation of **Veloxx AP** 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 AP**:

- **Veloxx LR** Laminating Resin
- **Veloxx LVP** Low Velocity Primer
- **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.

**EDGE**  
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