



Physical Properties:

Tensile Strength (ASTM D638):	3,380 psi (23.3 MPa)
Tensile Modulus (ASTM D638):	367,800 psi (2,530 MPa)
Elongation at Break (ASTM D638):	2.0%

Density:

Mixed Product	9.3 lbs/gal (1.11 kg/L)
Part A	9.6 lbs/gal (1.15 kg/L)
Part B	8.7 lbs/gal (1.04 kg/L)

VOC Content (ASTM D2369):	0% VOC
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DESCRIPTION:

V-Wrap PF is a two-part, 100% solids, epoxy for high strength composite bonding applications. V-Wrap PF matrix material is combined with V-Wrap carbon, glass fabrics, and StrongWire Steel reinforcement to provide a composite for strengthening of structural members. It provides a long working time for application, with no offensive odor. V-Wrap PF may also be used as a filler or finish coat depending upon the project requirements.

V-Wrap PF is an environmentally friendly product with no Volatile Organic Compounds (VOC) or solvents.

ADVANTAGES:

- NSF/ANSI Standard 61 listed product for drinking water systems
- 100% solvent free
- Good high / low temperature properties
- High elongation

SURFACE PREPARATION:

V-Wrap PF should be applied to substrates that are free of protrusions, dry, exhibit an open pore structure, and are free of dust, oils or other surface contaminants or bond inhibiting materials. Surfaces should also be dry and free of moisture.

MIXING:

Mix ratio: Premix Part B for 2 minutes. Add the full contents of Part B pail to the full contents of Part A pail, or use equal fractions of each pail. Blend Part A and Part B with a mechanical mixer for 3 minutes until uniformly blended.

APPROXIMATE POT LIFE:

1 to 3 hours at 68°F (20°C)

LIMITATIONS:

Only apply V-Wrap PF when the ambient temperature is between 40°F and 100°F (4°C to 38°C). Topcoat selection should be based upon requirements for protection from environmental exposures, aesthetics, and fire protection/burn characteristics.

CLEAN UP:

Use methyl ethyl ketone or acetone. Observe fire and health precautions when using solvents. Dispose of in accordance with local regulations.



OBSERVE WORKING TIME LIMITATIONS:

Mix no more material than can be applied within the work time period. Available work time, temperature and complexity of the application will determine how much material should be mixed at one time. Keep material cool and in shaded area, away from direct sunlight in warm weather. During hot weather, work time can be extended by keeping the material cool before and after mixing or by immersing the pot in ice water.

HANDLING PROPERTIES:

Color:
Mixed Grey
Part A Light grey
Part B Black

SHELF LIFE:

Stored at 70°F (21°C): 24 months (Parts A and B)

PACKAGING:

	Volume	Weight	Package
Part A	2.72 gal	26.1 lbs	5 gal pail
Part B	0.95 gal	8.3 lbs	1 gal can

STORAGE:

Store in a cool, dry area (40°F and 90°F [4°C to 32°C]) away from direct sunlight, flame or other hazards.

SAFETY:

WARNING: Vapor may be harmful. Contains epoxy adhesive and curing agent. May cause skin sensitivity or other allergic responses. Keep away from heat, sparks or open flame. In enclosed areas or where ventilation is poor use an approved air mask and utilize adequate safety precautions to prevent fire or explosion. In case of skin contact, wash with soap and water. For eyes, flush immediately (seconds count) with water for 15 minutes and CALL A PHYSICIAN. If swallowed, CALL A PHYSICIAN IMMEDIATELY.

HANDLING:

Approved personal protection equipment should be worn at all times. Particles mask is recommended when handling airborne particles. Gloves are recommended when handling fabrics and resins to avoid skin irritation. Safety glasses are recommended to prevent eye irritation. Wear chemical resistant clothing /gloves/goggles. Ventilate area. In absence of adequate ventilation, use properly fitted NIOSH respirator. Product Safety Data Sheets (SDS) are available and should be consulted and on hand whenever handling these products.

These products are for professional and industrial use only and are to be installed by trained and qualified applicators. Trained applicators must follow installation instructions.

STRUCTURAL TECHNOLOGIES, LLC warrants its products to be free from manufacturing defects and to meet STRUCTURAL TECHNOLOGIES' current published properties when applied in accordance with STRUCTURAL TECHNOLOGIES' directions and tested in accordance with ASTM and STRUCTURAL TECHNOLOGIES Standards. User determines suitability of product for use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product and excludes labor or the cost of labor. Any claim for breach of this warranty must be brought within one year of the date of purchase.

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