



# V-Wrap 777 HTg - Saturant

## PHYSICAL PROPERTIES:

<b>Glass Transition Temperature</b> (ASTM 3418):	520°F (288°C)
<b>VOC Content:</b>	Less than 1% per volume
<b>Density:</b>	9.33 lbs/gal (1.1 kg/L)
<b>Tensile Strength</b> (ASTM D638):	5,800 psi (40 MPa)
<b>Tensile Modulus</b> (ASTM D638):	500,000 psi (3,450 MPa)
<b>Elongation at Break</b> (ASTM D638):	1.1%
<b>Flexural Strength</b> (ASTM D790):	14,000 psi (96 MPa)
<b>Flexural Modulus</b> (ASTM D790):	450,000 psi (3,100 MPa)
<b>Elongation at Break</b> (ASTM D638):	3.5%
<b>Compressive Strength</b> (ASTM D695):	16,000 psi (110 MPa)
<b>Compressive Modulus</b> (ASTM D695):	500,000 psi (3,450 MPa)
<b>Elongation at Failure</b> (ASTM D638):	5.5%

## DESCRIPTION:

V-Wrap 777 HTg Saturant is a 100% solids, low viscosity resin, that is used to saturate carbon and glass fabrics. When reinforced with V-Wrap fiber fabrics, the V-Wrap 777 HTg Saturant Resin cures to create a high performance FRP laminate. The resulting FRP laminate can provide additional strength to concrete, masonry, steel and wood structural elements. V-Wrap 777 HTg Saturant is used with V-Wrap 779 HTg Primer and V-Wrap 776 HTg Putty Filler.

V-Wrap 777 HTg Saturant is a high temperature resistant, high glass transition temperature (Tg) resin that can be used with V-Wrap Fire Protection System to achieve up to 4 hours fire rating. It can also be used for elevated temperature applications for which typical solvent-based resins can not be used. Glass transition temperature of the V-Wrap 777 HTg Saturant exceeds 520°F, making it an ideal candidate wherever high temperature performance is a necessity.

V-Wrap 777 HTg Saturant is an environmentally friendly resin that emits less than 1% VOC and no HAP, solvents free, and minimum odor. The resin is perfect for healthcare facilities, hospitals, schools, industrial and highly populated areas as well as food and drug industries.

V-Wrap 777 HTg Saturant can be UV cured for faster installation and to reduce interruptions to facilities operations.

## APPLICATION INFORMATION:

Mix Ratio: 1 Unit Part A to 4 Units Part B (or fractions thereof).

## Approximate Pot Life:

40 min at 77°F (25°C)

## Surface Preparation:

V-Wrap 777 HTg Saturant should be applied to prepared substrates that has been coated with V-Wrap 779 HTg Primer and V-Wrap HTg 776 Putty Filler.

## Application Equipment:

A 1/4" (medium) nap roller or fiber saturating machine is recommended for application.

## Mixing:

Part A must be mechanically premixed separately for 2 minutes. After premixing, blend Part A and Part B with a mechanical mixer for 2 minutes until a homogeneous mixture is achieved.

## Application:

Option 1 (Recommended for V-Wrap C100 Fabric) — Apply two coats of V-Wrap 777 HTg Saturant Resin for each ply of fabric applied. The first saturant saturant coat is applied directly to the prepared substrate, the dry C100 Fabric is applied into the wet saturant coat and a second saturant coat applied to the fabric. Use a ribbed roller to ensure that the fabric is completely encapsulated by the saturant coats to form a laminate.

Option 2 (recommended for V-Wrap C200 fabric) — Use saturator machine or equal to impregnate the fibers with V-Wrap 777 HTg resin. Apply saturated fabric directly to the primed (V-Wrap 779) and tack coated substrate. Use a ribbed roller to ensure that the fabric is completely encapsulated by the saturant coats to form a laminate.



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## Coverage Rate:

V-Wrap C100 (9 oz./yd.)	60 ft <sup>2</sup> /gal (1.8 m <sup>2</sup> /L)
V-Wrap C200 (18 oz./yd.)	60 ft <sup>2</sup> /gal (1.2 m <sup>2</sup> /L)
V-Wrap EG100 (20 oz./yd.)	60 ft <sup>2</sup> /gal (1.0 m <sup>2</sup> /L)

Coverage rates may vary based on installation procedure and fabric type. Contact a V-Wrap representative for coverage rates.

## Limitations:

Only apply V-Wrap 777 HTg Saturant when the ambient temperature is between 40° and 100°F (4° and 38°C). Topcoat selection should be based upon requirements for protection from environmental exposures, aesthetics, with the surrounding substrates and for any required fire protection/burn characteristics.

## Clean Up:

Use methyl ethyl ketone or acetone. Observe fire and health precautions when using solvents.

## Observe Working Time Limitations:

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

## HANDLING PROPERTIES:

Mixed Viscosity: at 77°F (25° C) 6,000 cps

## Color:

Part A	Blue
Part B	Clear
Mixed	Blue

## Shelf Life:

Stored at 70°F (21°C): 12 months (Part A and B)

## Packaging:

	Volume	Weight	Packaging
Part A	4 gal.	37.4 lbs	5 gal. pail
Part B	12 fl. oz.	12 oz.	4 -3 fl oz. bottle

## STORAGE:

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

## SAFETY:

**WARNING:** Vapor may be harmful. Contains vinyl ester resins 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:

Use of approved personal protection equipment should be worn at all times. Particle mask is recommended for possible 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 Material Safety Data Sheets (MSDS) are available and should be consulted and on hand whenever handling these products.

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

## MAINTENANCE:

Periodically inspect the applied material and repair localized areas as needed. Consult a V-wrap representative for additional information

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