

RENEWWRAP® ANCHOR

FRP Anchoring System



STRUCTURAL STRENGTHENING

Technical Data

RenewWrap Anchors are manufactured from the RenewWrap CF600 carbon fibers and the RenewWrap Saturant.

APPLICATIONS

The RenewWrap Anchors are used to anchor RenewWrap fabrics to increase the development and bond of the fabric to substrate. The RenewWrap Anchors are also used to provide continuity of the strengthening fabrics across structural elements such as beams, walls and slabs.

ADVANTAGES

- ◆ High strength capacity anchors manufactured to project requirements & specifications
- ◆ 100% solvent free
- ◆ Ease of Installation

DRY-FIBER PROPERTIES

PROPERTY	ENGLISH	METRIC
Tensile Strength	700,000 psi	(4800 N/mm ²) (4.8 GPa)
Modulus of Elasticity	33.4x10 ⁶ psi	(230,000 N/mm ²) (230 GPa)
Elongation at Break	2.0%	2.0%

DESIGN PROPERTIES

PROPERTY	ASTM METHOD	TYPICAL DESIGN VALUES	TYPICAL DESIGN VALUES
Ultimate Tensile Strength	D3039	120,000 psi	(820 N/mm ²) (820 MPa)
Tensile Modulus of Elasticity	D3039	9.6 x10 ⁶ psi	(66,000 N/mm ²) (66.0 GPa)
Elongation at Break	D3039	1.1%	1.1%

Notes: The ReneWrap Anchor properties are based on ASTM D3039 testing of the RenewWrap Carbon Fiber laminates

STORAGE AND SHELF LIFE

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

PACKAGING

Packaged in lots of 25 anchors. Weights based upon design requirement of anchors.



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LIMITATIONS

- ◆ the use of RenewWrap Anchors is limited to the same environmental conditions as the RenewWrap FRP fabrics.
- ◆ All applications of RenewWrap Anchors should be evaluated and specified by a licensed design professional.

INSTALLATION

Installation should only be performed by contractors trained and certified by GeoTree Solutions.

SAFETY

Product safety data sheets (SDS) should be consulted prior to and during application of or when handling this product. RenewWrap Anchors contain carbon fibers. Caution should be taken when handling RenewWrap fabrics, since they contain fine carbon dust that may be present on the surface. Gloves must be used when handling RenewWrap fabrics. Caution must also be used when cutting RenewWrap fabrics to protect against airborne carbon dust. Use of an appropriate, properly fitted NIOSH approved respirator is recommended. Carbon fibers are conductive and special precautions should be taken when using this product around electrical tools and machinery.

FIRST AID

In case of skin contact, wash with soap and water. If fibers are embedded in skin, remove carefully with tweezers. For eye contact, flush immediately with plenty of water for at least 15 minutes and contact physician immediately. For respiratory issues, remove to fresh air. Remove all contaminated clothing and wash before re-use. Get medical attention.

KEEP OUT OF REACH OF CHILDREN. FOR INDUSTRIAL USE ONLY.

RELATED PRODUCTS

The following products are typically used with RenewWrap Anchors:

- ◆ RenewWrap CF600 Uni-direction Carbon Fiber Fabric
- ◆ RenewWrap CF335 Uni-direction Carbon Fiber Fabric
- ◆ RenewWrap CF600BX Bi-direction Carbon Fiber Fabric
- ◆ RenewWrap Saturant (2-Part Impregnating Resin)
- ◆ RenewWrap Adhesive Pastes and Top Coats

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