

LOCTITE RENEWRAP ANCHOR FRP Anchoring System

Technical Data

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

APPLICATIONS

The LOCTITE RenewWrap Anchors are used to anchor LOCTITE 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
- Available as Embedded or Through Anchors depending upon design
- 100% solvent free
- Embedded anchors come with pre-cured base for speed of installation
- Ease of Installation

DRY-FIBER PROPERTIES

| PROPERTY | ENGLISH | METRIC |
|-----------------------|--------------------------|---------|
| Tensile Strength | 700,000 psi | 4.8 GPa |
| Modulus of Elasticity | 33.4x10 ⁶ psi | 230 GPa |
| Elongation at Break | 2.0% | 2.0% |

DESIGN PROPERTIES

| PROPERTY | ASTM METHOD | ENGLISH | METRIC |
|-------------------------------|-------------|--------------------------|----------|
| Ultimate Tensile Strength | D3039 | 120,000 psi | 820 MPa |
| Tensile Modulus of Elasticity | D3039 | 9.6 x10 ⁶ psi | 66.0 GPa |
| Elongation at Break | D3039 | 1.1% | 1.1% |

Notes: The LOCTITE 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.



LOCTITE RenewWrap Embed Anchor



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LIMITATIONS

- The use of LOCTITE RenewWrap Anchors is limited to the same environmental conditions as the LOCTITE RenewWrap FRP fabrics.
- All applications of LOCTITE 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.

RELATED PRODUCTS

The following products are typically used with LOCTITE RenewWrap Anchors:

- LOCTITE RenewWrap CF600 Uni-direction Carbon Fiber Fabric
- LOCTITE RenewWrap CF335 Uni-direction Carbon Fiber Fabric
- LOCTITE RenewWrap CF1400 Uni-direction Carbon Fiber Fabric
- LOCTITE RenewWrap Saturant (2-Part Impregnating Resin)
- LOCTITE RenewWrap Adhesive Pastes and Top Coats

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Before using any GeoTree product, the user must review the most recent version of the product's technical data sheet, safety data sheet and other applicable documents, available at www.geotreesolutions.com or by calling +1.855.655.6750.



Henkel Adhesive Technologies