



DRI-WRAP CF 30

Unidirectional carbon fiber fabric for structural strengthening

A high strength and high modulus unidirectional carbon fiber fabric. It is laminated with Dri-Poxy epoxy resin adhesive to form a carbon fiber reinforced polymer lamination (CFRP) used in structural strengthening.

FEATURES/BENEFITS

- Light self-weight
- High strength
- High modulus
- Wide application range
- Anti-corrosion
- Durable & resistant even in severe environments

APPLICATION AREAS

- Structures which require increase in loads or traffic weight
- Areas which require improvement of structural condition
- Seismic retrofitting
- Ageing / Damaged structures
- Structural alterations / changes
- Rectification of design or construction errors

PRODUCT DATA

Shelf Life	10 years
Storage Condition	Store in dry conditions at 4 – 35°C

TECHNICAL DATA

Appearance	Black fabric
Width	500 mm (Custom widths available)
Length	100 m
Braiding	0° (Unidirectional)
Areal Weight	300 g/m ²
Dry Fiber Properties	
Stand Value of Tensile Strength	5800 MPa
Tensile Elastic Modulus	255 GPa
Elongation	1.60 %
Laminated Fiber Properties	
Stand Value of Tensile Strength	4840 MPa
Tensile Elastic Modulus	255 GPa
Elongation	1.95 %
Flexural Strength	920 MPa
Shear Strength	96 MPa
Density	1.8 g/cm ³

Dri-Wrap CF 30
Product Data Sheet
V2-Sep 2023
Dritech Chemicals Sdn. Bhd.

www.dritechemicals.com

SUBSTRATE

Substrate pull-off strength should be min. 1.0 N/mm² or as specified in the strengthening design. Concrete must be cleaned and prepared to achieve a laitance- and contaminant-free, open-textured surface. Please refer to the relevant Method Statement for further information.

APPLICATION METHOD & TOOLS

Dri-Wrap CF 30 can be cut with special scissors or a Stanley knife (razor knife / box-cutter knife). Never fold the fabric. Apply Dri-Wrap CF 30 onto the surface as designed. Ensure the surface is levelled from one end to another and that the impregnation adhesive fully impregnates into the fabric. The surface should be flat with no air bubbles. Please refer to the relevant Method Statement for further information.

TRANSPORTATION & STORAGE

This product should be stored in a dry, cool and well-ventilated environment. It should not be exposed to rain or be subjected to impact by sharp objects. During transportation and storage, Dri-Wrap CF 30 shall not be squeezed or compressed to avoid carbon fiber damage. It shall not be exposed to direct sunlight and/or rain.

LIMITATIONS

- Dri-Wrap CF 30 shall be applied by trained and experienced professionals, and a specialist structural engineer must be consulted for any structural strengthening design calculation.
- Dri-Wrap CF 30 fabric is coated to ensure maximum bond and durability with Dri-Poxy adhesives / impregnating / laminating resins. To maintain and

ensure compatibility, do not exchange system components.

- Dri-Wrap CF 30 can be overcoated with a cementitious overlay or other coatings for aesthetic and/or protective purposes. The overcoating system will depend on the area's requirements. Please contact Dritech Chemicals Sdn. Bhd. for more information.

HEALTH & SAFETY

For information & advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

LEGAL NOTE

The information, and, in particular, the recommendations relating to the application and end-use of these products, are given in good faith based on current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance to the manufacturer recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. The manufacturer reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned copies of which will be supplied on request.