



VEXCOLT

VX CarbonMaster 600

600 GSM – Uni-directional Woven Carbon Fabric



For Strengthening and Retrofitting Applications:

- Increase in flexural load carrying capacity.
- Increase in shear load carrying capacity.
- Increase in strength of column by way of confinement.
- Increase in ductility of column and beamcolumn joints.
- Improving service life and durability.
- Structural upgrades to comply with standards

Characteristic	Specification	Tolerance	Test Method
Areal Weight (g/m <sup>2</sup> )	600	- 0 % / +5%	ASTM D3776
Standard Width (mm)	500	± 10 mm	ASTM D3774
Fabric Design Thickness (mm)	0.333	-	Calculated based on fiber content

## FABRIC CONSTRUCTION

Characteristic	Fiber	Orientation	% Weight
Warp	High Strength 24K	0°	98
Weft	Fusible Glass	90°	2

## FIBER PROPERTIES

Characteristic	Unit	Value
Density	g/cm <sup>3</sup>	1.8
Filament Diameter	µm	7 nominal
Tensile Strength	MPa	4900 min.
Tensile Modulus	GPa	240 min.
Elongation	%	2.2 max.
Sizing	-	Epoxy Compatible

Disclaimer. The information and the recommendations relating to the application and end use of this product are given in good faith and are based on the information provided by the manufacturer of the product and/or the Company's current knowledge and experience in connection with the product when properly stored, handled and applied under normal conditions and no liability of final function at the job site is assumed. In practice, the differences in materials substrates and actual size conditions are such that no warranty in respect of merchantability or fitness for particular purpose, nor any liability by the Company will be accepted for misuse, misreading or derivation from recommended guidelines in respect of this product and the user shall determine the suitability of the product for his intended use and all risks and liability in connection therewith. The information contained in the brochure may change at any time without notice.





## LAMINATE PROPERTIES

Characteristic	Unit	Values	Test Method
Type of Resin system	-	Epoxy Saturant	-
Tensile Strength	MPa	1200 min.	ASTM D3039
Tensile Modulus	GPa	95 min.	ASTM D3039
Elongation	%	1.8 max	ASTM D3039

## PACKAGING

Wound on a cardboard core, covered with brown craft paper and placed in a cardboard box. Rolls stacked horizontally on pallets when shipping.

## ROLL LENGTH

VX CarbonMaster 600 are typically available in the form of rolls with roll width 500 mm and 1000 mm roll length of 50m & 100 m. Custom widths and length can be produced on request against MOQ's

## STORAGE

It should be stored in its undamaged original packaging in a dry and cool place.

Boxes must be stacked flat and not on ends.

Best conditions are at temperature from 10 to 35°C and humidity between 35 and 85%

## SHELF LIFE

36 months from date of production when stored in proper storage conditions

## INSTALLATION

VX CarbonMaster 600 must be applied by trained and certified applicators in accordance with the quality control manuals, project specifications, and design requirements. Specialist structural engineers must be consulted for any structural strengthening design calculations.

## HANDLING

Use hand gloves, masks and protective glasses.

Please refer to our Material Safety Data Sheets before use for complete details

Carbon fibers are electrically conductive

## DISPOSAL

Dispose by incineration or as per local regulations.

Disclaimer. The information and the recommendations relating to the application and end use of this product are given in good faith and are based on the information provided by the manufacturer of the product and/or the Company's current knowledge and experience in connection with the product when properly stored, handled and applied under normal conditions and no liability of final function at the job site is assumed. In practice, the differences in materials substrates and actual size conditions are such that no warranty in respect of merchantability or fitness for particular purpose, nor any liability by the Company will be accepted for misuse, misreading or derivation from recommended guidelines in respect of this product and the user shall determine the suitability of the product for his intended use and all risks and liability in connection therewith. The information contained in the brochure may change at any time without notice.

