

## STRUCT GUARD- CARBON (UD 330)

### (Unidirectional carbon fibre sheet)

#### DESCRIPTION:

STRUCT GUARD – CARBON is a carbon fiber used for structural strengthening of beam, column applicable with STRUCT GUARD- PRIMER and STRUCT GUARD- SATURANT.

#### AREAS OF APPLICATION:

- Beams
- Chimneys
- Columns
- Flat slabs and walls
- Structural connection

#### ADVANTAGES:

- Enhanced load carrying capacity
- Increases service life and durability
- Reducing the need of further maintenance and repair work.
- Carbon fibre wrapping provides significant strength and protects against further corrosion and erosion.

#### PRODUCT SPECIFICATIONS:

Sr. No	Specifications	Product Details
1	Material	Carbon fibre
2	Warp	Black carbon fibres 99 %
3	Weft	white thermoplastic heat set fibres 1 %
4	Fibre density	1.72 gm/cm <sup>3</sup>
5	Thickness	0.191 mm
6	Fabric Type	Unidirectional
7	GSM Value	330 GSM
8	Length (mtr)	50-100 mtr
9	Width (mm)	500 mm



### TECHNICAL DATA:

<b>Typical Dry fibre properties</b>	ASTM D 3039 / ISO 10618
Tensile strength (ISO 10618)	>4000 N/mm <sup>2</sup>
Tensile modulus (ISO 10618)	235 Gpa
% Elongation (ISO 10618)	2.0 %
<b>Typical fibre properties in composites</b>	
Tensile strength (ASTM D 3039)	3500 Mpa
Tensile modulus (ASTM D 3039)	200 Gpa

### STORAGE CONDITION:

Store in original undamaged, sealed packaging in dry condition protect from sunlight

### SAFETY PRECAUTIONS:

Wear gloves, goggles, and mask to avoid skin and eye contact. Work in well-ventilated areas to prevent inhalation of fumes. Avoid ingesting epoxy or hardener, and wash hands thoroughly after use. In case of skin contact, wash with soap and water, and seek medical attention if irritation persists.

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