



## STRUCT GUARD-CARBON LAMINATES

### DESCRIPTION:

STRUCT GUARD– CARBON LAMINATES is Carbon fibre laminate is one-way sheet reinforced by carbon fibre. Applicable with STRUCT GUARD- LAMINATE ADHESIVE. It has good properties such as high tensile strength, corrosion resistance, seismic resistance and impact resistance. Increase the load-bearing capacity and repair general building structures, industrial buildings, bridges and other structures made of different materials.

### DIRECTION FOR USE:

#### SURFACE PREPARATION:

- The surface must be clean and free from contamination. The performance of product depends upon the quality of surface preparation.
- Remove grease, oil, and all other contaminants by solvent cleaning as followed by wiping dry with clean rags.
- Accumulated dirt and soluble salts can be removed by dry bristle brushing and fresh water washing respectively.

### APPLICATION:

- Externally bonded STRUCT GUARD– CARBON LAMINATES have been successfully applied to reinforced concrete (RC) beams and other structural elements for the purpose of increase load carrying capacity.

### PRODUCT DETAILS:

Material	Carbon Fibre Composite Matrix
Appearance	Glossy black strands
Storage	Store in a dry condition
Adhesive material requirement	0.5 kg required for running 1 meter
Shelf life	4 years from manufacturing date

## Constro Chem India Pvt. Ltd.

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### TECHNICAL DATA:

Dimensions	Thickness	Length	Width
	1.2 mm -1.4 mm	50 mtr-100 mtr	50 mm-100 mm

### Typical Laminates Mechanical Properties:

Test Parameter	Test Method	Test Result
Modulus of elasticity	(ASTMD3039)	170 GPa
Tensile Strength	(ASTMD3039)	3200 MPa
Elongation at break	(ASTMD3039)	2.25%

### Typical Fiber Properties:

Tensile Strength	5000 MPa
Tensile Modulus	250 GPa
Elongation	2.0%

### SAFETY PRECAUTIONS:

Care should be taken to avoid contact with eyes, skin, and mouth and food stuff. Any splashes on the human body must be washed off with plenty water.

Wear protective gloves, goggles, and nose masks while handling the material.

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