

STRUCT GUARD- LAMINATE

(One way carbon fibre reinforced laminate)

DESCRIPTION:

STRUCT GUARD- CARBON LAMINATES is Carbon fibre laminate is one-way sheet reinforced by carbon fibre. 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.

AREAS OF APPLICATION:

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

ADVANTAGES:

- Enhanced load carrying capacity
- Increases service life and durability
- Reducing the need of further maintenance and repair work.
- Carbon laminate provides significant strength and protects against further structural damage.

PRODUCT SPECIFICATIONS:

Sr. No	Specifications	Product Details
1	Material	Carbon fibre composite matrix
2	Appearance	Glossy black strands
3	Storage	Store in a dry condition
4	Shelf life	4 years from a date of manufacturing
5	Fire resistant rating	Up to 2 hrs @ 480°C

DIRECTION FOR USE:

- 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.



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)	2400 MPa	
Elongation at break	(ASTMD3039)	2.25%	
Typical Fiber Properties:			
Tensile Strength	5000 MPa		
Tensile Modulus	250 GPa		
Elongation	2.0%		

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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