

CHEMCORE CARBON WRAP

Carbon fibre composite

BENEFITS

- Achieves high tensile strength and modulus
Lightweight
- Does not unnecessarily increase the total weight of the reinforced area
- Excellent durability, anti-corrosion, and waterproofing effects
- Ease of application
- Economical
- Improves flexural strength
- Increases abrasive resistance and reinforcement of cracks and circular structures

DESCRIPTION

CHEMCORE CARBON WRAP is based on new technology designed to completely guarantee the original structure's performance by increasing its strength, durability, and vibration resistance. **CHEMCORE CARBON WRAP** is applied to deteriorated concrete areas both horizontally and vertically.

PROPERTIES

Type of Fiber	High strength carbon
Fiber areal weight (g/m ²)	200
Sheet dimension (W cm x L m)	50 x 50
Fiber density (g/cm ³)	1.82
Design Thickness (mm)	0.129
Standard Execution Thickness (mm)	0.45
Tensile Strength (kg/cm ²)	390
Deformation Ratio at Failure (%)	2.1
Modulus of Elasticity in Tension (EN 2561)	~225 kN/mm ² (characteristic 220 kN/mm ²)
Elongation at Break in Tension (EN 2561)	1.56%
Tensile Resistance (EN 2561)	452kN/m (Characteristic:413 kN/mm ²)
Tensile Stiffness (EN 2561)	29.0 MN/m, 29.0 kN/m per % elongation
Characteristic	28.4 MN/m, 28.4 kN/m per % elongation

APPLICATION

Surface Preparation: Remove all contaminants such as debris, grease, or oil by grinding, and repair the cracks.

Priming: Apply primer **SAFECORE CARBON SHIELD PRIMER** to the treated concrete surface.

Application: Apply the 1st coat of **SAFECORE CARBON SHIELD** on the primed surface. When the surface is still tacky, bond **CHEMCORE CARBON WRAP** onto it. Rub the surface 2 or 3 times with a roller in the direction of the fiber to remove air pockets. Apply the topcoat of **CHEMCORE CARBON SHIELD** on the sheet and sprinkle sand on top; let it cure for 24 hours. Plastering work can be done after curing.

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SPECIFICATION

CHEMCORE CARBON WRAP refers to a uniformly spread unidirectional carbon fiber sheet fused together with a multi-axial glass fiber net, used strictly in accordance with the instructions of CHEMCORE.

QUALITY ASSURANCE

Fairmate manufactures entire range of construction chemicals under compliance of ISO 9001, ISO 14001 & ISO 45001 (Occupational Health and Safety) certified by ISOQAR / UK.

TECHNICAL SERVICES

While new advances and changes will take place but one thing will never change is quality and meeting special needs of our customers. Our quality control laboratory and technical experts are available to provide additional information and technical assistance. We are eager to work with you in development of new product and resolve your problem.

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ENGINEERING GROUTS
INDUSTRIAL FLOOR SURFACES**

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SURFACE TREATMENT
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PREPACKED CONCRETE & MORTAR**

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