HORSE CONSTRUCTION MORSE



HM-2.0T

Carbon Fiber Laminate for structural strengthening

Description

HM-2.0T is a pultruded carbon fiber reinforce polymer(CFRP) laminated designed for strengthening concrete, timer and masonry structures. HM-2.0T is bonding onto the structure as external reinforcement using HM-120CP epoxy resin as the adhesive.

Where to Use

Load Increase

- Increased live loads in warehouses
- Increased traffic volumes on bridges
- Installation of heavy machinery in industrial building
- Vibrating structures
- Changes of building utilization

Seismic Strengthening

- Column wrapping
- Masonry walls

Damage to Structural Parts

- Aging of construction materials
- Vehicle impact
- Fire
- Blast impact

Change in Structural Parts

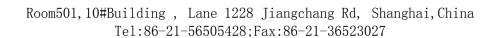
- Removing of wall or columns
- Removal of slab section for openings

Design or Construction Defects

- Insufficient reinforcements
- Insufficient structural depth

Advantages

- Approved by GB50367-2013/GB50728-2011/GB50550-2010
- High Strength
- Light Weight
- Non-corrosive
- Alkali Resistant



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Typical Data	
BASE	
Shelf Life	Unlimited(no exposure to direct sunlight)
Color	Black
Tensile Strength	
Mean Value	$4.06 \times 10^5 \text{psi}(2800\text{MPa})$
Design Value	$348 \times 10^5 \text{psi}(2400\text{MPa})$
Modulus of Elasticity	
Mean Value	$23.9 \times 10^6 \text{psi}(165,000\text{MPa})$
Design Value	$23.2 \times 10^6 \text{psi}(160,000\text{MPa})$
Elongation at Break	1.7%
Thickness	2.0mm
Temperature Resistance	>300°F(>150°C)
Fiber Volumetric Content	>68%
Density	$0.058 \text{ lbs./in}^3 (1.6 \text{g/cm}^3)$

Packing

Available carton package at 10sqm/carton. Type 50mm width, 2rolls per carton; Type 100mm width, 1 roll per carton.

Transportation and storage

This product should be stored in dry, cool and well-ventilated environment without rain, exposure or impact with sharp objects;

Carbon fiber materials transport and storage shall not be squeezed to avoid carbon fiber damage, or direct sunlight and rain