

Fiberglass CSM

CEMKRETE

High performance non-woven fiberglass chopped strand mat for FRP lining and waterproof reinforcement layer system

Innovative products for your success

Uses

Conjunction with all liquid resin and waterproofing membrane for reinforcement purposed. Using for epoxy lining reinforcement.

Advantages

- High tensile strength
- High chemical resistant
- Light weight
- More flexibility, easy to apply
- Non toxic

Description

Fiberglass Chopped Strand Mat (Fiberglass CSM) is produced by random distribution of chopped strands (non-woven) (usually 50 millimeters or 2 inches in length) into a uniform bonded mat. Chopped strand mat has no uni-directional physical properties. It is most widely used for FRP products, including such as chemical resistant concrete or steel tank lining, waterproofing reinforcement layer, large articles as boats and bath tubs, made by hand lay-up method. Flat and corrugated glass fiber reinforced sheeting, pipes, angles and other profiles also use chopped strand mat. Other applications are thick laminates, covers, trays and troughs. Using the press molding method, chopped strand mat makes panel-type products. Chopped strand mat can be combined with resin to form sheet molding compound. It has excellent wetting and drapability, high tensile strength and allows easy removal of trapped air particles. It complies with the delicate requirements for precision FRP products.

Application

Example product protective coating application

Primer 500	:	8-10 m ² /kg
Duragard VE98 (1 st coat)	:	1.5 m ² /kg
Fiberglass 300 gsm	:	1.0 m ² / m ²
Duragard VE98 (2 nd coat)	:	1.5 m ² /kg
Fiberglass 300 gsm	:	1.0 m ² / m ²
Duragard VE98 top coat	:	2.5 m ² / kg

Estimated system thickness : ~2.5 mm.

Note : Duragard VE98 is the protective coating product of Cemkrete

Properties :

Thickness : 0.50-0.60 mm.

Mass : 300 ± 5% gsm

Tensile strength (N/50 mm) : warp ≥1300
weft ≥1600

Chemical resistance

Fiberglass CSM samples have been tested in a wide range of aggressive chemicals commonly found in industrial environments. Tests were performed by constant immersion over a set period, followed by visual inspection.

Acids

Acids	Resistance
Sulphuric acid 98%	: Good
Hydrogen peroxide 50%	: Good
Hydrochloric acid 50%	: Good
Acetic acid 50%	: Excellent
Lactic acid 50%	: Excellent
Citric acid 50%	: Excellent

Alkalis

Sodium hydroxide 50%	: Excellent
Ammonia (0.880) 10%	: Excellent

Solvents

Petrol	: Excellent
Oil	: Excellent
Kerosene	: Excellent
Butanol	: Good

Others

Saturated sugar solution	: Excellent
Urea (saturated)	: Excellent
Bleach 5%	: Excellent

Important Note: Cemkrete warrants its materials free of manufacturing defects and produced as per standard specifications and sold under the terms and conditions of usages, whilst Cemkrete endeavors to ensure that any advice, recommendation, or information, given through its products literatures are reflects of the R&D in-house lab test and practical sites experience and knowledge based feed backs, however, the products are being used under various conditions and applied beyond its control where or how either directly or indirectly at various locations and places at a different stages that of an intended purposes and uses. Therefore, Cemkrete cannot hold warranty or responsible for resultant consequences, such as damages to the property or assets but the product itself.