



The FRP Retrofit Experts

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## Product Data Sheet

# QuakeWrap® CM13.5 Chopped Strand Mat

### DESCRIPTION

QuakeWrap® CM13.5 is made of randomly distributed chopped E6 glass strands held together by a powder binder. QuakeWrap® CM13.5 is compatible with unsaturated polyester, vinyl ester, epoxy and phenolic resins.

### USE

- QuakeWrap® CM13.5 is designed for use in hand lay-up and continuous laminating processes
- QuakeWrap® CM13.5 can be saturated with QuakeBond™ J300SR or QuakeBond™ J333SR saturating resins
- QuakeWrap® CM13.5 creates an impervious resin-rich layer that can be used in repair of pipelines, tanks, cooling towers, etc.
- Construction of jackets for repair of piles and columns.

### ADVANTAGES

- Fully compatible and excellent adhesion to QuakeBond™ resins.
- Creates an impervious resin-rich laminate.
- Non-corrosive.
- Versatile; can be wrapped around complex shapes.

### PACKAGING

Each QuakeWrap® CM13.5 Chopped Strand Mat is supplied in rolls that are 115 yards (105 m) long. The mat is available in three different widths: 38 in. (965 mm), 50 in. (1270 mm), and 60 in. (1524 mm). Each roll is wound onto a cardboard tube which has an inside diameter of 90 mm and an outside diameter of approximately 340 mm. The mat can be easily cut in the field into narrower widths of various lengths.

### SHELF LIFE

Best used within 12 months after production date.

### STORAGE CONDITIONS

Store in dry, cool and moisture proof area. Room temperature should always be maintained at 60°-95° F (15°-35° C) with a relative humidity of 35%-65%. Fiberglass products should remain in their original packaging until just prior to use.

### APPLICATION

Surface must be clean and sound; it may be dry or damp but must be free of standing water and frost. Remove dust, laitance, grease, curing compounds, disintegrated materials and other bond inhibiting materials from the surface. Existing uneven surfaces must be filled with an appropriate repair mortar. The adhesive strength of the substrate must be verified after surface preparation by random pull-off testing (ACI 503R) at the discretion of the engineer. Minimum tensile strength of 200 psi (1.4 MPa) with substrate failure is required. Blast clean, shot-blast, scarify or use other approved mechanical means to clean the substrate surface. Any sharp edges (i.e. fins, form-marks, etc.) must be ground smooth and flush. Sharp edges must be rounded to a minimum radius of 3/4 in. (19 mm). Apply QuakeBond™ J201TC or QuakeBond™ J300SR or J333SR thickened with silica fume onto the substrate as a tack coat with a trowel or spatula to a nominal thickness of 40 mil (1 mm). A notched trowel may be used for this application.

Saturate QuakeWrap® CM13.5 mat thoroughly with QuakeBond™ J300SR or J333SR for under water applications; for more details, refer to the Product Data Sheets for J300SR and J333SR. Before the epoxies harden, apply saturated fabric to the substrate surface that has been coated with tack coat. Using gloved hands, carefully remove any entrapped air bubbles under the fabric; a plastic laminating roller can be used for this purpose. If required, additional layers of saturated mat can be directly applied on top of previous layers. Feather the edges of the fabric with thickened epoxy. Installation of QuakeWrap® mats must be performed only by specially trained and approved contractors.

Chopped mat can be cut to appropriate length using a commercial quality heavy duty scissor.

### LIMITATIONS

Design calculations must be made and certified by an independent licensed professional engineer. System is a vapor barrier. Concrete should not be encapsulated in areas of freeze/thaw.

### CAUTION

QuakeWrap® CM13.5 is non-reactive. However, gloves must therefore be worn to protect against skin irritation.

KEEP OUT OF REACH OF CHILDREN.  
NOT FOR INTERNAL CONSUMPTION.

FOR INDUSTRIAL USE ONLY.  
KEEP CONTAINER CLOSED TIGHTLY.

QuakeWrap, Inc. warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current technical data sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor. NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. QUAKEWRAP, INC. SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES.