



INSTALLATION GUIDELINES FOR MIRAFI® FG FIBERGLASS REINFORCING GRID

PRODUCT DESCRIPTION

Mirafi® FG is composed of high modulus fiberglass grids bonded to a lightweight scrim. The sole purpose of the scrim is to assist in the construction process. Mirafi® FG products are specifically designed for use in the construction and repair of flexible (asphalt) and rigid (concrete) pavements, such as roads, parking lots, airfields and other paved surfaces.

PREPARATION

The Mirafi® FG FG series products should be kept dry and wrapped such that it is protected from the elements during shipping and storage. If stored outdoors, the fabric needs to be elevated and protected with a waterproof cover. The air and pavement temperatures should be at least 45°F (8°C) for placement of the Mirafi® FG Asphalt tack coat and paving reinforcing grid shall not be placed during unsuitable weather conditions, or as directed by the engineer.

The pavement surface should be dry and cleaned of all dirt and oil. Cracks wider than 3/8 inch (8 mm) wide should be cleaned and filled with suitable bituminous material approved by the engineer. Potholes and locally failed or cracked pavement sections shall be repaired as directed by the engineer. If milling or existing rough pavement exists, a leveling course is required prior to installation of the paving grid.

The use of Mirafi® FG over Portland Concrete Pavements should be used with a leveling course between the existing PCC pavement and Mirafi® FG This product can be used directly over a milled asphalt surface defined as a finished milled surface with the appropriate asphalt overlay thickness recommended for the pavement.

INSTALLATION

The tack coat required is a PG grade (uncut liquid asphalt) and applied using a distributor truck with calibrated spraying equipment. The tack coat should be applied at a rate sufficient to bond the grid and scrim to the existing pavement surface. The purpose of the scrim is to adhere to the grid for construction purposes, not to saturate the scrim for a waterproof membrane. The tack coat application rate shall be typically 0.08 gallons per square yard, with a range of 0.06 to 0.10 gallons per square yard. The temperature of the tack coat shall be sufficiently high to permit uniform spray pattern. The target width of the tack coat application shall be equal to the paving fabric width plus a total of 4 inches (100 mm). The tack coat shall be applied only as far in advance of paving composite installation as is appropriate to ensure a tacky surface at the time of paving. Traffic should not be allowed on the tack coat.

The paving grid should be placed with the scrim side down onto the tack coat using mechanical or manual equipment. The paving grid should be laid down smooth to minimize wrinkling or folding. Wrinkles severe enough to cause folds must be slit and laid flat by brooming and/or use of a rubber-tire roller. On curves and around corners, the grid must be cut and realigned to avoid folding. Mirafi® FG shall not be installed in areas where the overlay asphalt concrete tapers to a minimum compacted thickness of less than 1.5 inches (38 mm). Additional hand placed tack coat

may be required at repairs as required by the engineer. Turning and braking of the paving equipment or other vehicles should be avoided to prevent movement or possible damage to the fiberglass grid. Damaged composite shall be removed and replaced with the same type of composite and a tack coat. At joints, rolls overlap should be kept to a minimum of approximately 1-2 inches. Excess should all be cut and removed to ensure that overlaps of adjacent rolls do not exceed 4 inches.

All areas with paving fabric placed must be paved the same day. No traffic except necessary construction traffic shall be allowed to drive on the paving composite.

Overlay Placement: Asphalt overlay construction shall closely follow composite placement. If excessive tack coat bleeds through the scrim, it may be picked up or shoved by the paver or asphalt supply trucks, this can be minimized by broadcasting hot mix over the installed grid. In the event of rainfall on the paving composite prior to the placement of the asphalt overlay, the paving composite must be allowed to dry completely before the overlay is placed. Overlay asphalt thickness shall be, the requirements of the contract drawings. The minimum compacted thickness of the first lift of overlay asphalt concrete over the grid shall not be less than 1.5 inches (38 mm).

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