



Mirafi® FG Paving Grid Asphalt Overlay Reinforcement

OUR COMPANY

TenCate™ develops and produces materials that function to increase performance, reduce costs and deliver measurable results by working with our customers to provide advanced solutions.

OUR PRODUCT

Mirafi® FG paving grid is composed of high modulus fiberglass grids bonded to a light weight scrim. Mirafi® FG paving grid 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.

The Difference Mirafi® FG Paving Grid Makes:

When placed with a suitable tack coat between the existing pavement and the asphalt overlay, Mirafi® FG paving grid helps extend pavement life by:

- Improving fatigue resistance of new overlays to heavy traffic loads.
- Retarding the propagation of an existing crack through the new overlay (reflective cracking).
- Adding reinforcement through high strength fiberglass or polyester yarns.

- Extending the useful life of the overlay.
- Strengthening the entire pavement system.

Mirafi® FG paving grids are specifically designed to allow water to pass through the grid. This feature allows the flow of water through pavement in order to maintain the pavement design without structural damage.

In use, the open grid pattern interlocks with hot mix asphalt providing maximum reinforcement by bonding with the new pavement layer. FG paving grid is constructed with fiberglass yarns that are aligned in a transverse and longitudinal pattern to optimize transfer loading of a moving pavement.

The high crossover junction bond strength improves structural integrity of a new overlay. A polyester scrim attached to the paving grid bonds to the old pavement and is tacked with liquid asphalt to provide adhesion of the paving grid during construction of the hot mix overlay.

Note: Mirafi®FG200 shall only be installed in a single strip application on longitudinal or transverse cracks or localized cracked pavement areas. Material shall not be installed in a manner such that an overlap is created either in a



Mirafi® FG Paving Grid

longitudinal and/or transverse orientation along the material edges.

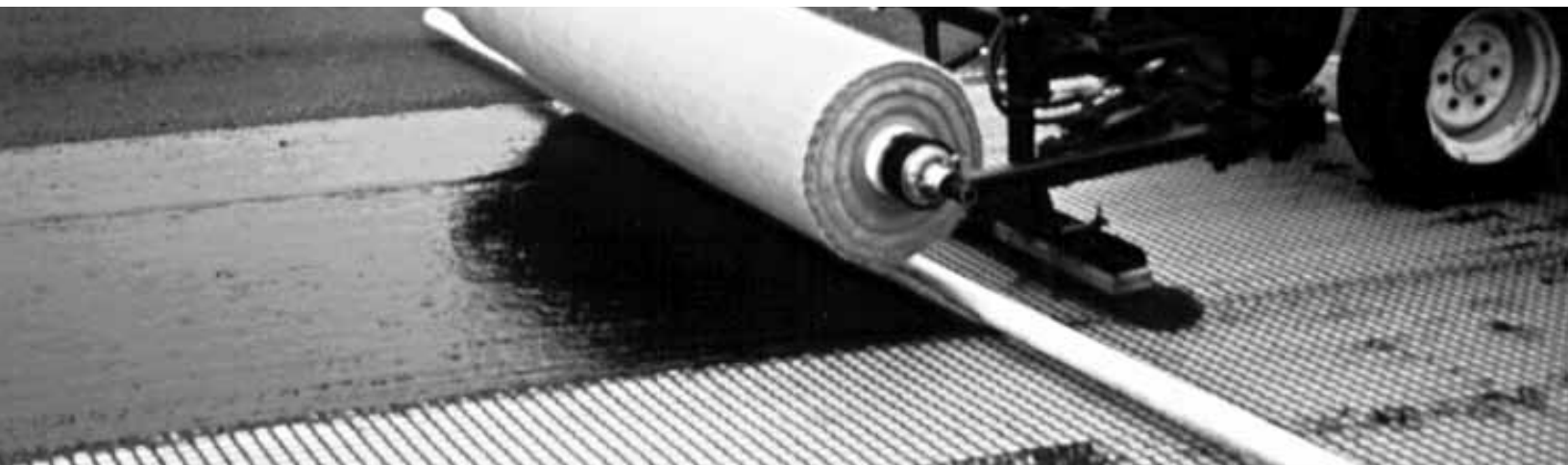
OUR APPLICATIONS

Mirafi® FG paving grid provides a long-term reinforcement layer that extends the pavement lifecycle in the following applications:

- Highways
- Streets
- Parking Lots
- Bridges
- Golf Cart Paths
- Airport Runways
- Playgrounds
- Mobile Home Parks
- Shopping Centers
- Industrial Parks

OUR SERVICE

TenCate offers complete application technical assistance. Our comprehensive service includes assistance during design, specification and throughout the process. TenCate™ makes the difference.



Mirafi® FG Paving Grid Asphalt Overlay Reinforcement

Mirafi® FG50

Mechanical Properties	Test Method	Units	Minimum Average Roll Value	
			MD	CD
Tensile strength (at ultimate)	ASTM D6637	lbs/in (kN/m)	286 (50)	286 (50)
Tensile strength (at 2% strain)	ASTM D6637	lbs/in (kN/m)	143 (25)	143 (25)
Ultimate elongation	ASTM D6637	%	< 3	
Junction strength	GSI/GG-2	lbs (N)	10 (45)	
Peel strength	ASTM D413	lbs/in (kN/m)	10 (0.1)	
Aperture size ²	---	in (mm)	0.85 (21.6)	0.85 (21.6)
Physical Properties	Test Method	Units	Typical Value	
Mass/unit area	ASTM D5261	oz/yd ² (g/m ²)	7.6 (258)	
Roll dimensions (width x length)	-	ft (m)	2 x 55 (6.6 x 180)	
Roll area	-	yd ² (m ²)	132 (110)	
Estimated roll weight	-	lbs (kg)	63 (29)	

Mirafi® FG100

Mechanical Properties	Test Method	Units	Minimum Average Roll Value	
			MD	CD
Tensile strength (at ultimate)	ASTM D6637	lbs/in (kN/m)	571 (100)	571 (100)
Tensile strength (at 2% strain)	ASTM D6637	lbs/in (kN/m)	286 (50)	286 (50)
Ultimate elongation	ASTM D6637	%	< 3	
Junction strength	GSI/GG-2	lbs (N)	18 (80)	
Peel strength	ASTM D413	lbs/in (kN/m)	20 (0.3)	
Aperture size ²	---	in (mm)	0.8 (20)	0.7 (18)
Physical Properties	Test Method	Units	Typical Value	
Mass/unit area	ASTM D5261	oz/yd ² (g/m ²)	18.3 (620)	
Roll dimensions (width x length)	-	ft (m)	6.6 x 180 (2 x 55)	
Roll area	-	yd ² (m ²)	132 (110)	
Estimated roll weight	-	lbs (kg)	180 (82)	

Mirafi® FG200

Mechanical Properties	Test Method	Units	Minimum Average Roll Value	
			MD	CD
Tensile strength (at ultimate)	ASTM D6637	lbs/in (kN/m)	571 (100)	1142 (200)
Tensile strength (at 2% strain)	ASTM D6637	lbs/in (kN/m)	286 (50)	457 (80)
Ultimate elongation	ASTM D6637	%	< 3	
Junction strength	GSI/GG-2	lbs (N)	18 (80.1)	
Peel strength	ASTM D413	lbs/in (kN/m)	10 (0.1)	
Aperture size ²	---	in (mm)	0.8 (20.3)	0.7 (17.8)
Physical Properties	Test Method	Units	Typical Value	
Mass/unit area	ASTM D5261	oz/yd ² (g/m ²)	20.4 (691.6)	
Roll dimensions (width x length)	-	ft (m)	6.58 (2) x 180 (55)	
Roll area	-	yd ² (m ²)	132 (110.4)	
Estimated roll weight	-	lbs (kg)	168 (76)	

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materials that make a difference