



## 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 TenCate 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.



Mirafi® FG Paving Grid

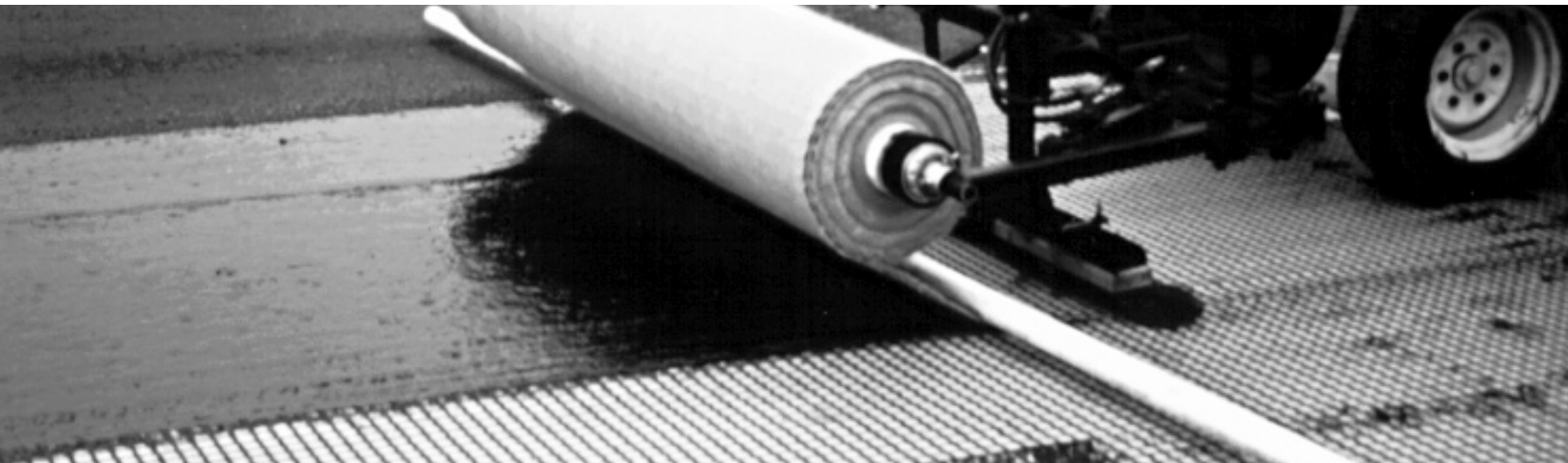
### OUR APPLICATIONS

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® FG 50

Mechanical Properties	Test Method	Units	Minimum Average Roll Value	
			MD	CD
Tensile strength (at ultimate)	ASTM D 6637-01	kN/m (lbs/in)	50 (280)	50 (280)
Tensile strength (at 2% strain)	ASTM D 6637-01	kN/m (lbs/in)	25 (140)	25 (140)
Ultimate elongation	ASTM D 6637-01	%	< 5	
Junction strength	GSI/GG-2	N (lbs)	45 (10)	
Peel strength	ASTM D 413-98	N/m (lbs/ft)	146 (10)	
Aperture size <sup>2</sup>	---	mm (in)	21 (0.85)	21 (0.85)

Physical Properties	Test Method	Units	Typical Value
Mass/unit area	ASTM D 5261-92	g/m <sup>2</sup> (oz/yd <sup>2</sup> )	337 (10)
Roll dimensions (width x length)	-	m (ft)	2 (6.58) x 55 (180)
Roll area	-	m <sup>2</sup> (yd <sup>2</sup> )	110 (132)
Estimated roll weight	-	kg (lbs)	38 (83)

### Mirafi® FG 100

Mechanical Properties	Test Method	Units	Minimum Average Roll Value	
			MD	CD
Tensile strength (at ultimate)	ASTM D 6637-01	kN/m (lbs/in)	100 (560)	100 (560)
Tensile strength (at 2% strain)	ASTM D 6637-01	kN/m (lbs/in)	50 (280)	50 (280)
Ultimate elongation	ASTM D 6637-01	%	< 5	
Junction strength	GSI/GG-2	N (lbs)	80 (18)	
Peel strength	ASTM D 413-98	N/m (lbs/ft)	146 (10)	
Aperture size <sup>2</sup>	---	mm (in)	20 (0.8)	18 (0.7)

Physical Properties	Test Method	Units	Typical Value
Mass/unit area	ASTM D 5261-92	g/m <sup>2</sup> (oz/yd <sup>2</sup> )	439 (13)
Roll dimensions (width x length)	-	m (ft)	2 (6.58) x 55 (180)
Roll area	-	m <sup>2</sup> (yd <sup>2</sup> )	110 (132)
Estimated roll weight	-	kg (lbs)	48 (107)

### Mirafi® FG 200

Mechanical Properties	Test Method	Units	Minimum Average Roll Value	
			MD	CD
Tensile strength (at ultimate)	ASTM D 6637-01	kN/m (lbs/in)	100 (560)	200 (1120)
Tensile strength (at 2% strain)	ASTM D 6637-01	kN/m (lbs/in)	50 (280)	100 (460)
Ultimate elongation	ASTM D 6637-01	%	< 5	
Junction strength	GSI/GG-2	N (lbs)	80 (18)	
Peel strength	ASTM D 413-98	N/m (lbs/ft)	146 (10)	
Aperture size <sup>2</sup>	---	mm (in)	20 (0.87)	18 (0.7)

Physical Properties	Test Method	Units	Typical Value
Mass/unit area	ASTM D 5261-92	g/m <sup>2</sup> (oz/yd <sup>2</sup> )	620 (18)
Roll dimensions (width x length)	-	m (ft)	2 (6.58) x 55 (180)
Roll area	-	m <sup>2</sup> (yd <sup>2</sup> )	110 (132)
Estimated roll weight	-	kg (lbs)	67 (149)

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For more information visit [www.mirafi.com](http://www.mirafi.com)