

Mirafi® MPG100 Composite Paving Grid

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

Mirafi® MPG100 is a glass filament reinforced paving composite comprised of fiberglass filament yarn incorporated into a nonwoven polypropylene paving fabric. This composite or reinforced paving fabric combines the excellent reinforcing properties of glass filaments with optimum liquid asphalt retention capacity of a mechanically bonded AASHTO nonwoven paving fabric.

The Difference Mirafi® MPG100 Paving Composite Makes:

- Reinforcement: High load-properties at low strain (<3%) appropriate for heavy loaded pavements.
- Cost Effectiveness: Suitable for full width overlay, local patch and joint repair.
- Sealing: Moisture cannot penetrate into the road structure.
- Longevity: Maintenance intervals are considerably extended.
- Stress Relief: Retards crack propagation from the old surface to the new overlay.

- Adhesive Bonding: Provides uniform bonding between old and new asphalt layers.
- Installation: Easily included in asphalt resurfacing projects.
- Recycling: Can be milled with conventional milling machines.
- Resistance: Chemically resistant to road salt.

APPLICATIONS

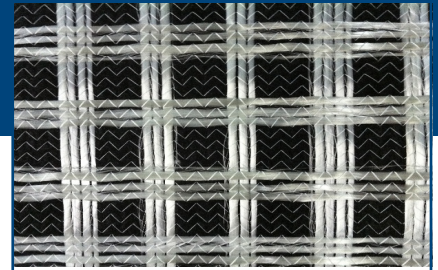
Mirafi® MPG100 paving composite is used for the maintenance of asphalt and concrete roads.

Mirafi® MPG100 paving composite is ideal for:

- Asphalt reinforcement of full pavement width
- Asphalt reinforcement of old concrete roads
- Repair of a longitudinal crack
- Repair of the old surface over excavated ditches

Constant increases in traffic frequency and axle loads place great demands on existing roads. The horizontal stresses induced between layers soon result in crack formation, and any local differential settlements also lead to cracking of the asphalt layer.

Mirafi® MPG100 is the solution for pavement engineers. Asphalt reinforcement by high-modulus glass filaments, combined with the sealing and



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uniform bonding effect of the nonwoven geotextile, provides effective maintenance and prolongs the working life of road structure.

Mirafi® MPG100 composite is a reinforced paving interlayer with high strength, low elongation and high asphalt absorption. When installed with sufficient asphalt cement tack coat on a properly prepared surface, Mirafi® MPG composite and the tack coat form an impermeable interlayer system that is fully recyclable and adds long-term lifecycle cost benefits to your pavement.



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Composite Paving Grid

Technical Data

Mechanical Properties	Test Method	Units	MPG 100
Average Roll Value			
Tensile Strength @ 0°	ASTM D6637	lbs/in	655 (115)
Tensile Strength @ 90°	Method A	(kN/m)	655 (115)
Tensile Elongation	modified	%	< 3
Melting Point	ASTM D276	F° (C°)	Glass filaments are incombustible and temperature resistant up to 1472° (800°)
Mass/Unit Area	ASTM D5261	oz/yd ² (g/m ²)	20.0 (678)
Glass by Weight		%	77.4
Minimum Test Value			
Asphalt Retention	ASTM D6140	gal/yd ² (l/m ²)	0.27 (1.2)

Tensile Strength values refer to strength of the glass filaments.

Physical Properties	Unit	MPG 100
Roll Dimensions (width x length)	ft (m)	6.25 x 300 (1.9 x 91)
	ft (m)	12.5 x 150 (3.8 x 45.7)
Roll Area	yd ² (m ²)	208 (174)
Estimated Roll Weight	lbs (kg)	260 (169)

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