Mirafi® PGM-G
Composite Paving Grid

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® PGM-G 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® PGM-G 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.

OUR APPLICATIONS
Mirafi® PGM-G paving composite is used for the maintenance of asphalt and concrete roads.

Mirafi® PGM-G 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. These stresses result in crack formation caused by horizontal forces and by local differential settlements.

Mirafi® PGM-G is the solution for pavement engineers. Asphalt reinforcement by high-modulus glass filaments, combined with the sealing and uniform bonding effect of the nonwoven geotextile, provides effective maintenance and prolongs the working life of road structure.

OUR PROCESS
Mirafi® PGM-G 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® PGM-G composite and the tack coat form an impermeable interlayer system that is fully recyclable and adds long-term lifecycle cost benefits to your pavement.

OUR SERVICE
TenCate® offers complete application technical assistance. Our comprehensive service includes assistance during design, specification and throughout the process. TenCate® makes the difference.
### Technical Data (All values are minimum average roll values)

<table>
<thead>
<tr>
<th>Mechanical Properties</th>
<th>Test Method</th>
<th>Units</th>
<th>PGM-G 50/50</th>
<th>PGM-G 100/100</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tensile Strength @ 0°</td>
<td>ASTM D6637</td>
<td>lbs/in</td>
<td>342 (60)</td>
<td>655 (115)</td>
</tr>
<tr>
<td>Tensile Strength @ 90°</td>
<td>Method A, modified</td>
<td>kN/m</td>
<td>380 (67)</td>
<td>655 (115)</td>
</tr>
<tr>
<td>Tensile Elongation</td>
<td></td>
<td>%</td>
<td>4</td>
<td>&lt; 3</td>
</tr>
<tr>
<td>Melting Point</td>
<td>ASTM D276</td>
<td>F (°C)</td>
<td></td>
<td>(°C)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(Glass filaments are incombustible and temperature resistant up to 752° (400°))</td>
<td></td>
</tr>
<tr>
<td>Asphalt Retention</td>
<td>ASTM D6140</td>
<td>gal/yd² (l/m²)</td>
<td>0.27 (1.2)</td>
<td>0.27 (1.2)</td>
</tr>
<tr>
<td>Mass/Unit Area</td>
<td>ASTM D5261</td>
<td>oz/yd² (g/m²)</td>
<td>12.9</td>
<td>20.0</td>
</tr>
<tr>
<td>Glass by Weight</td>
<td></td>
<td>%</td>
<td>64.2</td>
<td>77.4</td>
</tr>
</tbody>
</table>

Tensile Strength values refer to strength of the glass filaments.

<table>
<thead>
<tr>
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<th>Unit</th>
<th>PGM-G 50/50</th>
<th>PGM-G 100/100</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grid Aperture Size</td>
<td>in (mm)</td>
<td>1.26 (32)</td>
<td>1.5 (38.1)</td>
</tr>
<tr>
<td>Roll Dimensions (width x length)</td>
<td>ft (m)</td>
<td>12.5 x 150 (3.8 x 46)</td>
<td>6.25 x 250 (1.9 x 76)</td>
</tr>
<tr>
<td>Roll Area</td>
<td>yd² (m²)</td>
<td>208 (175)</td>
<td>174 (145)</td>
</tr>
<tr>
<td>Estimated Roll Weight</td>
<td>lbs (kg)</td>
<td>168 (76)</td>
<td>207 (94)</td>
</tr>
</tbody>
</table>

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materials that make a difference