

ProPave® PETB Reinforced Paving Geotextile

Geocomposite Reinforced Paving Geotextile

Exceptional all in-one reinforcement, stress absorption and moisture barrier benefits in road pavements



Product Information

ProPave® PETB Geocomposite Reinforced Paving Fabric is a high temperature resistant needle-punched Polyester (PET) nonwoven geotextile combined with an integral high performance Polyester (PET) geogrid yarns utilised primarily in the maintenance, rehabilitation and new construction of road pavements.

ProPave® PETB Geocomposite Reinforced Paving Fabric can be incorporated with a bitumen sprayed seal to create a Geotextile Reinforced Seal (GSR) system or installed as an bitumen impregnated asphalt interlayer for reinforcement, stress-relief and waterproofing functions. ProPave® PETB Geocomposite Reinforced Paving Fabric is expectational in mitigating crack reflection and preventing the ingress of moisture into the road pavement as well as the added benefit of reinforcement for long-term durability. It helps improve pavement performance and extends the life span of the pavement more than conventional paving fabrics.

Applications

- Complimenting bitumen sprayed seals for wearing surfaces and/or moisture barrier layer within the structural profile on local, highway and airport pavements
- Beneath asphalt overlays
- Deep-lift asphalt interlayer
- Pavement reinforcement and strengthening

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Benefits

- High tensile strength geogrid providing increased durability, reliability, stability and resistance to rupture compared to conventional solutions.
- Good UV resistance and elongation characteristics.
- Allows for optimum protection against moisture ingress and crack mitigation.
- Creates a stress absorbing interlayer to help control the progression of reflective cracks.
- Increases the flexibility and strength of the pavement system.
- Improves pavement performance and extends the road service life.
- Reduces future maintenance activities and the associated costs.
- Large range available and easy to install, thereby reduces time and labour costs.

Product Data Sheet

Product Grade - PETB 35/35

Physical Properties		Unit	Value	Standard
PET Geogrid Yarn Properties				
Material	High Tenacity Polyester Yarn			
Mechanical Properties				
Ultimate Tensile Strength	MD	kN/m	35	ISO 10319 /ASTM D 4595
	CMD	kN/m	35	ISO 10319 / ASTM D 4595
Elongation at Break	MD/CMD	% <u>±2</u>	10	ISO 10319 / ASTM D 4595
Tensile Strength at 3% Strain	MD	kN/M	8.5	ISO 10319 / ASTM D 4595
	CMD	kN/M	8.5	ISO 10319 / ASTM D 4595
Weight		g/m²	250	ISO 9864/AS 3706.1
Geotextile Mass		g/m²	130	ISO 9864/AS 3706.1
Thickness		mm	≥0.8	ISO 9864/AS 3706.1
Bitumen Retention		L/m²	≥0.9	ASTM D 6140-00
Melting Point		°C	≥200	ASTM D276-00a
Standard Roll Width*		m	5.3*	
Standard Roll Length*		m	100*	

MD = Machine Direction, CMD = Cross Machine Direction

* Other roll dimensions are available to suit project requirements.

Disclaimer:

The nominal properties reported herein are typical on the product of ProPave® but do not reflect normal testing variance and therefore should not be construed as specifications.

Global Synthetics reserves the right to make any improvement or amendments to the composition of any grade or product without alteration to the product code.

About Us

Leaders in Geosynthetics

Global Synthetics is a 100% Australian-owned company, proud to offer a complete range of high-quality geosynthetic products backed by over 200 years of combined staff experience in the industry.

We have supplied products to some of the largest recent infrastructure works in Australia. Global Synthetics provides major benefits to any geotechnical engineering project with the right products and our technical expertise.

Global Synthetics products are used in the following applications:

- Pavement Stabilisation
- Ground Improvement
- Soil Reinforcement and Retaining Structures
- Water Management
- Drainage Systems & Hydraulic Works
- Landfills
- Coastal Erosion Structures

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