

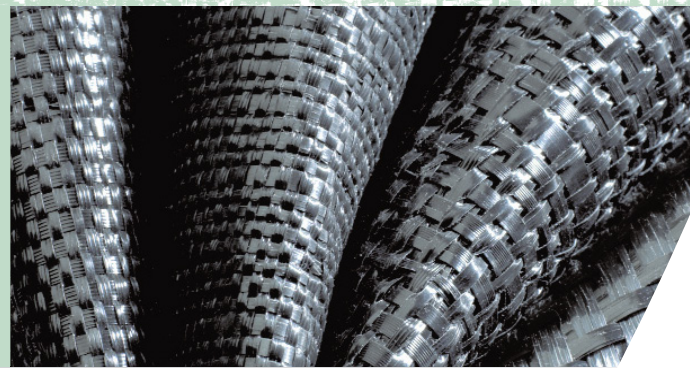
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Common Arrangement D11

Uniclass

L1411/ L132/ L6634



Woven Polypropylene Geotextiles

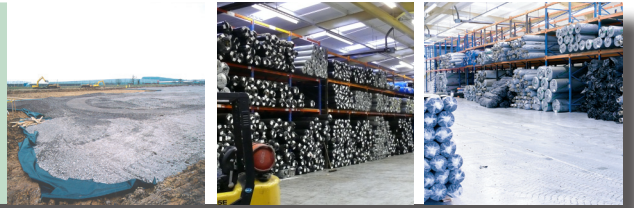


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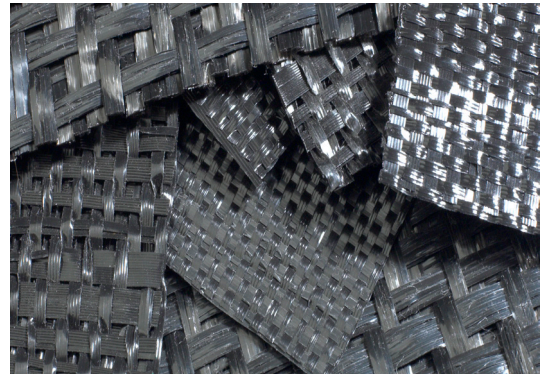
Rhyno®

Woven Polypropylene Geotextiles



Since its introduction in 1999, Rhyno® has been helping contractors to reduce maintenance costs by extending the life of roadways, car parks, haulage yards and a wide range of other traffic areas.

With its advanced weaving technology Rhyno® gives you the reliability and reassurance of the UK's leading geotextile brand, covering a variety of applications.



Applications

- Separation
- Reinforcement
- Support
- Filtration
- Drainage

As the name suggests Rhyno® woven geotextiles are strong, robust and durable, made from extruded polypropylene tapes. Their industry-leading design has created a geotextile that combines high tensile strength with exceptional puncture resistance to give outstanding performance and longevity.

Add to this its exceptional resistance to acids, alkalis, organic compounds and UV it's easy to see why it's one of the best-selling geotextiles in use today.

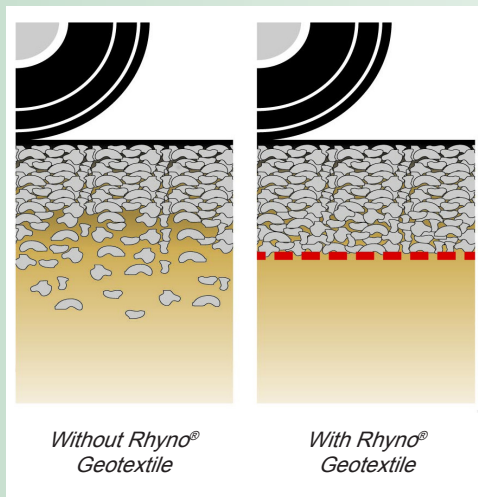


Product applications



Separation

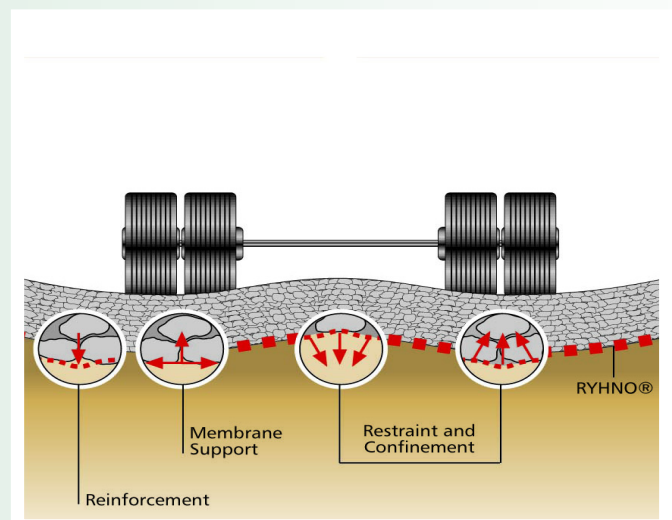
Using Rhyno® geotextiles to separate the aggregate base from the subgrade soil gives substantial improvement to roadway performance, and significantly reduces maintenance costs by preventing these two materials from mixing.



Without an effective geotextile, the aggregate base can break down and become mixed with water and soil creating mud - this reduces the shear strength and compaction of the aggregate. Woven geotextiles provide long-term separation by improving compaction and preventing the contamination of the aggregate. With such a comprehensive range Rhyno® can provide woven geotextiles to suit a wide variety of subgrades or soils.

Reinforcement

By spreading the load horizontally across a wide area Rhyno® woven geotextiles can increase compaction of the aggregate base to reduce rutting and improve strength. Using Rhyno® for reinforcement improves the load-bearing capacity of soft soils and its ability to withstand vertical loads. Furthermore Rhyno® enables the effective fill thickness to be maintained by reducing the intermixing and punching of fill material into the subsoil.



Please call
01455 617 139

or email sales@geosyn.co.uk
for further information.

Wide Product
Range

Next
Day
Delivery

Onsite
Support

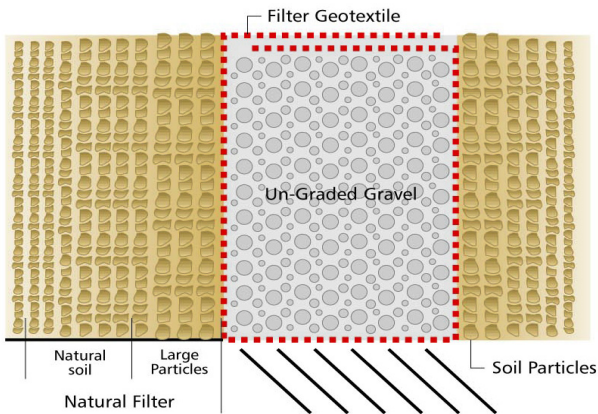
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Drainage and Filtration Unpaved Roadways

Rhyno® woven geotextiles offer an improved method from traditional drainage systems such as French drains. These systems produce mixed results due to their reliance on graded materials, which are expected to prevent the drainage pipe from clogging.

With soft subgrades, high traffic loads and large rutting, unpaved roads can often result in high maintenance. Using Rhyno® woven geotextiles in these situations can help you lower costs by saving money on the amount of aggregate needed and reducing ongoing repairs.

A soft subgrade covered with the appropriate grade provides stability by spreading loads over a wider foundation, increasing roadway life.



Wrapping less expensive ungraded gravels in woven geotextile allows water to pass through and acts as a barrier to soil particles. In this way, Rhyno® creates a natural filter adjacent to the geotextile, giving a more reliable filtration capability. Available in a wide range of pore sizes it can be matched with differing soil types for optimum performance.

Paved Roadways

Rhyno® woven polypropylene geotextiles provided an inexpensive and time-proven solution to the leading cause of pavement failure - aggregate contamination.

This can be avoided by laying Rhyno® between the subgrade and the aggregate layer. In addition to preventing these two layers from combining it also improves subsurface drainage, extending the life of paved roads and parking areas

Geosynthetics Limited is a leading distributor of geosynthetic materials in the UK

Large
Stock
Holding

Design
Service

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At
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Quality assurance

Proven across millions of square meters of the UK's traffic areas

Millions of square metres of Rhyno® woven polypropylene are already increasing the life of roads, car parks, pathways and haulage yards across the UK. By distributing loads more evenly and reducing rutting, it reduces the degradation of any surface that relies on an aggregate sub base.

Its advanced manufacturing process involves weaving extruded polypropylene film, resulting in high tensile strengths at low elongations (high tensile modulus) giving a more stable base and reducing ongoing maintenance costs.

RELIABILITY
IMPROVED
QUALITY

Certified Quality

Rhyno® woven polypropylene geotextiles are manufactured under a quality management system which is certified in accordance with the most comprehensive standards set by the International Organisation for Standardisation; namely ISO 9001:2008. This has been implemented throughout the business to give customers greater reliability and improved quality.

Accreditation

Rhyno® woven polypropylene geotextiles are CE marked in accordance with The Construction Products Directive (CPD 89/106/EEC). CE marking demonstrates conformity to The Construction Products Directive (CPD 89/106/EEC) and indicates the stringent testing and certification of Factory Production Control (FPC) that Rhyno® has gone through to meet the highest European geotextile standards.



CE
0799-CPD-37

TBU

Geosynthetics Limited is committed to offering the best solutions for soil stabilisation, erosion control, drainage and environmental protection problems. Fully qualified engineers are always available to discuss which materials are best suited to any particular application.



Geosynthetics

Rhyno[®] Specification

Geosynthetics		GW8118	GW8123	GW8129	GW8143	GW8161	GW8180	GW8210
Tensile strength (kN/m) BS EN ISO 10319	Warp	17.2	20	21	40	45	60	80
	Weft	11.5	14	21	40	45	60	80
Elongation at break (%) BS EN ISO 10319	Warp	15	15	15	14	15	15	17
	Weft	11	15	15	14	10	10	10
CBR Puncture Resistance (N) BS EN ISO 102236		1900	2350	3000	4400	5000	6500	9000
Water flow normal to the plane (1/m ² /sec) BS 6906 Part 3		10	19	20	29	25	25	25
Pore size 90% finer than (microns) BS 6906 Part 2		180	200	200	200	200	200	200
Effect of UV light	The polypropylene used contains UV inhibitor							
Standard roll width (m)		4.5	4.5	4.5	4.5	4.5	4.5	4.5
Standard roll length (m)		100	100	100	100	100	100	100
The values quoted are typical values based on measurements in current production and test results from independent test institutes.								
Widths up to 5.2m and longer roll lengths are available on request.								

Geosynthetics Limited,
Fleming Road,
Harrowbrook Industrial Estate ,
Hinckley,
Leicestershire,
LE10 3DU

Tel: 01455 617139
Fax: 01455 617140
Email: sales@geosyn.co.uk

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DR: 56/V1/20.11.13

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