

## Paving product properties

PAVING FABRIC PROPERTIES	UNITS	GE140
Polymer		Polyester continuous-filament non-woven Geotextile
Mass	g/m <sup>2</sup>	140
Thickness	mm	0.6
G Rating	Austroroads	> 950
Wide Strip Tensile Strength	kN/m	> 8.0
Elongation	%	> 50
Melting Point	°C	> 200°C
Bitumen Absorption Task Force 25	Litres/m <sup>2</sup>	0.9
Roll Dimensions	m	3.3m, 3.7m 4.0m x 250m

HATELIT C PROPERTIES	UNITS	GEOGRID WITH AN ULTRALIGHT NON-WOVEN
Polymer		Geogrid: polyester
Coating		Bituminous
Mass	g/m <sup>2</sup>	270
Ultimate Tensile Strength	kN/m	50 x 50
Tensile Strength @3% strain	kN/m	12 x 12
Strain @ nominal tensile strength	%	< 12 MD < 12 XMD
Mesh Size of the geogrid	mm x mm	40 x 40
Heat Resistance	°C	Up to 190°C
Standard Dimensions	M	1m , 2m , 4m x 150m

ROADTAPE PROPERTIES	UNITS	HIGH-STRENGTH, MULTI-LAMINATE TAPE, WOVEN PP MESH AND BITUMEN COATING
Tensile Strength ASTM D1000	N/mm	5.0
Elongation at Break ASTM D1000	%	50
Puncture Resistance ASTM E154	N/mm	900
Adhesion (180° peel) ASTM D1000	N/mm	4.0
Water Vapour Transmission ASTM E96	g/m/24h	0.40
Water Penetration % Joint MOAT 27 5.1.4	-	Nil
Thickness	mm	1.35
Roll Length	m	20m
Roll Width	mm	150, 250, 500, 1000

The information presented herein is, to the best of our knowledge and belief, correct. It is subject to periodic review and revision. The validity of the information relative to the soil and engineering conditions must be ascertained by a suitably qualified person. No warranty is either expressed or implied.



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# SGSnews

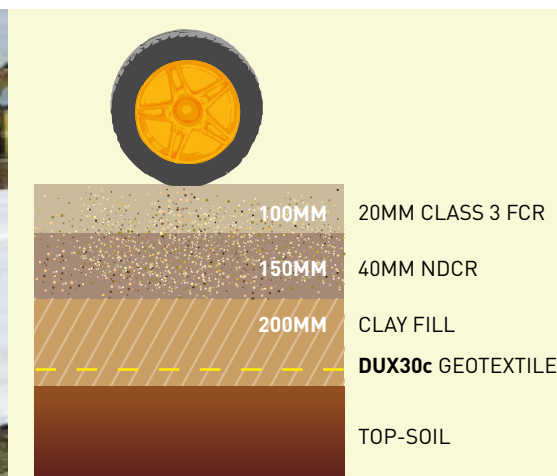
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Southern Geosynthetics Supplies Pty Ltd

## Werribee to Geelong Freshwater Pipeline



DUX 30c LAID DIRECTLY OVER GREEN FIELD SITE



### Inside:

CANAL<sup>®</sup> Dam Lining

HUESKER receives  
2010 IGS award

Paving Products profile

### Background

To help drought-proof the Geelong area contractor Abigroup is constructing 59km of 800mm diameter steel pipeline between Werribee and Geelong. This will connect Geelong to the Melbourne freshwater supply.

As part of this project a hardstand was required to be built at Lara to temporarily store the heavy pipe. The hardstand would be trafficked by semis heavily loaded with steel pipe.

### The Challenge

The challenge was to construct a hardstand directly over "green field" farming land.

Normally the soft top-soil would be stripped 200mm to a firm subgrade and standard pavement material placed and compacted. However, to prevent the possible spread of Bathurst Burr seed the top-soil could not be removed from site, so construction had to proceed directly over the farming land.

### The Solution

Place **DUX 30c** non-woven geotextile directly over the entire 30,000sqm greenfields site, followed by 200mm of clay fill, then 150mm of 40mm NDCR and finally 100mm of 20mm Class 3 FCR. The **DUX 30c** stabilised the soft top soil and allowed compaction of the pavement layers.

Abigroup Project Manager David Houlihan said "the **DUX 30c** worked so well that we are now also using it on access road construction at the Macarthur Windfarm project in Western Victoria".

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TOP: SEAMING CANAL WITH JOWAT HOTMELT GLUE

LEFT: THE FILLED DAM

## CANAL Dam Lining – Dam good lining!

Mal Deveson, owner of Moondarra Blueberries, prides himself on producing top quality blueberries – in fact they won the Gold Medal at the ABC Delicious Produce Awards in 2010.

So, when Mal looked for the best product to line his farm dam he chose **CANAL 8208**, the toughest, easiest to place liner available. **CANAL 8208** is a composite of a 0.5mm PE liner bonded on either side to protective non-woven geotextile layers.

This geocomposite liner is tougher than even thick HDPE liners, plus it is not slippery like poly liners. Best yet it is easy to install – **CANAL 8208** is supplied in wide 7.6m rolls, ideal for covering large areas with minimal overlaps. **CANAL 8208** can be seamed with either glue or wedge welding.

Mal and son installed some 1400sqm of **CANAL 8208** in only a few days and used Jowat hot-melt glue. The glue is simply melted down on-site with a gas heater and pot, then ladled on to form waterproof seams.

Manufactured by Huesker in the USA, **CANAL 8208** is ideal for a range of lining applications including dams, fish race, general water containment, landfill caps and, of course, for channel lining.

## HUESKER receives 2010 IGS award

The IGS Award Committee presented HUESKER Synthetic GmbH with the 2010 IGS Award for the development of geosynthetic reinforcements made of innovative polymers at a special ceremony on 26 May 2010 during the 9th International Conference on Geosynthetics in Guaruja, Brazil.

The IGS Committee voted unanimously to present the award to HUESKER; the citation recognizes HUESKER for its continued commitment to the development and production of geosynthetic products, often using innovative polymers.

For more than 40 years, HUESKER has manufactured geosynthetic products for the construction industry and technical textiles for agricultural applications. These products can be customized to specific site requirements and technical specifications, with numerous practical applications within the civil engineering sector; primarily in the area of soil reinforcement.

HUESKER GmbH is honoured to receive this IGS Award and views it as an endorsement of its historic contribution to geosynthetics as well as an obligation to continue to lead the industry in developing more sustainable and cost effective solutions in the future.

## Paving Products profile

**Southern Geosynthetics** is specialist supplier of a complete range of paving products including **Hatelit C** asphalt reinforcement grid, **Roadtape** bitumen tape and polyester geotextile **Paving Fabric**. The range of products offer a full choice for treatment of all reflective cracking problems in pavements. **Hatelit C** is world renowned as the best product for treating reflective cracking in asphalt overlays. **Roadtape** is the ideal choice for narrow strip treatment of cracks and polyester **Paving Fabric** is the best choice for spray seal applications.



HATELIT C AT DEMPSTER ST, TOTTENHAM

### Hatelit C

Asphalt is an ideal material for road construction, but reflective cracking of asphalt overlays is a common problem. Cracks can form in asphalt laid over concrete carriageways through the horizontal movements of individual concrete slabs. Also traffic wheel loads can cause bending and shear stresses in asphalt.

By using **Hatelit C** reinforcement grids you can extend the life of asphalt overlays up to 4 times. **Hatelit C** is a flexible 50kN/m polyester grid combined with an ultralight non-woven to ease installation. This unique construction combined with a bitumen coating ensures optimum bond and reinforcement performance. **Hatelit C** is placed on a tack coat of 0.6 L/sqm of bitumen emulsion. **Hatelit C** is available in a range of standard roll widths including 1m, 2m and 4m x 150m. Rolls can also be supplied cut to width to suit particular project requirements.



HATELIT C

40 years of experience world-wide means that **Hatelit C** offers proven results unmatched by any other product. **Hatelit C** has been used in Australia on major airfield projects at Sydney, Tullamarine Tindal and Amberley RAAF base.

### Roadtape

**Roadtape** is a stress relieving and waterproofing membrane used for treating construction joints in concrete pavements and concrete culverts, bridge decks and crack sealing in asphalt overlays. **Roadtape** is a self-adhesive, multi-laminate tape comprising a polypropylene woven mesh and a bitumen-polymer adhesive compound. Simply peel off the backing paper and apply directly to the surface. A primer may be required in cold conditions or if the substrate is dirty.



ROADTAPE



GE140 PAVING FABRIC

### Paving Fabric

**Paving Fabric** serves two functions – stress relief and waterproofing. The fabric absorbs bitumen to form a waterproof barrier. This is the most important function in spray seal applications, stopping water from penetrating and weakening

the road base. In asphalt overlays the fabric also acts as an interlayer absorbing stresses and reducing crack propagation in the overlay.

**GE140 Paving Fabric** is a 140gsm non-woven, needle-punched, polyester geotextile. Polyester is ideal for this application since it has a melting point of 260C and so can resist hot spray bitumen temperatures which are typically greater than 160C.

GE140 is supplied in a range of roll widths including 3.3m, 3.7m and 4.0m to suit various lane widths, and is supplied in rolls 250m long to reduce downtime due to roll changes.