

HUESKER HATELIT® & SAMIGRID® DATA SHEET

Flexible Geogrid For Reinforcement Of Pavement Asphalt Layers

PRODUCT			HATELIT® C 40/17	HATELIT® XP 50	SAMIGRID® XP 50S
Mechanical	Test	Unit			
Ultimate tensile strength Longitudinal Transverse	EN ISO 10.319	kN/m	≥50 ≥50	≥50 ≥50	≥50 ≥50
Tensile strength @3% strain Longitudinal Transverse	EN ISO 10.319	kN/m	≤12 ≤12	≥22 ≥22	≥20 ≥20
Strain @ nominal tensile strength Longitudinal Transverse	EN ISO 10.319	%	≤12 ≤12	≤6 ≤6	≤6 ≤6
Physical					
Composite Material Knitted Geogrid Nonwoven geotextile			Polyester (PET) Polyester (PET)	PVA PVA	PVA PVA
Coating on Geogrid & Geotextile			Bituminous	Bituminous	Bituminous
Heat resistance of composite		° C	up to190	up to 190	up to 190
Weight	EN ISO 9864	g/m ²	~270	~210	~450
Mesh size (approx.)		mm	40 x 40	40 x 40	40 x 40
Packaging					
Roll width x length		m	5 x 60	5 x 150 <i>indent only</i>	5 x 100 <i>indent only</i>
Fortrac® Datasheet Revisions			03/2012 Rev. G	02/2007 Rev. B	09/2007 Rev. G

Hatelit® 'C' Product Description

HaTelit® is a geocomposite made a from high-modulus polyester polymer geogrid and non-woven geotextile all coated with bitumen to achieve a strong bond to the asphalt. The nonwoven simplifies installation and ensures continuous bond between the layers. This excellent adhesion allows HaTelit® to take up and evenly distribute tensile forces, and provide an effective method of preventing reflective cracking in asphalt layers. The good bonding of Hatelit 'C' to the substrate greatly reduces the rucking / pick-up of the geogrid due to the passage of construction / paving machinery as compared to stiffer products having 'roll' memory.

Over 30 years' experience with HaTelit® 'C' in cold, temperate and hot climates has shown that maintenance intervals can be increased by a factor of 3-4.

SamiGrid® XP 50S and Hatelit® XP 50 Product Description

SamiGrid® XP 50S and HaTelit® XP 50 is a geocomposite made a from high-modulus PVA polymer geogrid and heavy weight non-woven geotextile coated with bitumen, this achieves a good bond to the concrete substrate which not only greatly reduces the rucking / pick-up of the geogrid due to the passage of construction / paving machinery as compared to more stiff products having 'roll' memory thus simplifying installation but ensures a continuous bond with the subsequent asphalt overlay.

This excellent adhesion allows the geogrid to take up and evenly distribute tensile forces, and provide an effective method of preventing reflective cracking when overlaying concrete pavements and slabs with asphalt.

The geogrids high modulus polyvinyl alcohol (PVA), PVA exhibits very good resistance to high pH-values making it is particularly suitable for the reconstruction of concrete surfaces and the reconstruction of ASR (alkali-silica reaction) affected pavement slabs.

The saturation of the heavy nonwoven material with bitumen provides a double benefit, i.e. a reinforcing effect from the geogrid and a sealing effect through the bitumen saturated nonwoven.

Fortrac HaTelit® and SamiGrid® flexible geogrids are manufactured according to ISO 9001 quality assurance procedures.

Typical applications

- Anti-crack reinforcement in asphalt
- Reinforcement over joints
- Overlays to old concrete roads and slabs
- Reinforcement of asphalt layers in hydraulic engineering and landfill projects

Properties

- High temperature stability
- Elongation characteristics match the modulus of the asphalt
- Long-term dynamic load carrying capability
- Good bonding characteristics with asphalt