**DESCRIPTION**

S&P Glasphalt® G is a pre-bituminised asphalt reinforcement grid made of glass fibres for local and/or full surface reinforcement of bituminous surfaces.

**WHERE TO USE**

- Used against cracking
- Prevents crack reflection
- Increases the durability of asphalt surfaces
- The pre-bituminisation guarantees the required layer bonding between old and new road surfaces

**PERFORMANCE FEATURES**

- Minimises crack formation and prevents crack reflection
- Reduces fatigue and thermal cracks
- Lower consumption of tack coat thanks to the pre-bituminised grid
- Grid structure freely moveable through heat application (no fixed knots)
- Local application on existing cracks/joints or complete surface application
- No waiting time – immediate road surface construction possible
- Easy and efficient application with unrolling equipment (also in curves)
- Effectiveness at a cover layer of min. 4 cm
- Can be milled and recycled without problems

**PRODUCT DATA**

**Generic description**
S&P Glasphalt® G

**Construction**
Longitudinal: Glass fibres; Transverse: Glass fibres

**Appearance**
Black pre-bituminise glass fibre mesh

**Dimensions**
Roll width: 0.97 m / 1.50 m / 1.95 m
(Other sizes available on request);
Roll length: 50 m

**Mesh opening**
15 mm x 15 mm

**Storage**
In original packaging and in a cool, dry and covered area without direct sunlight.
Surface Preparation
- Clear substrate of any dust, loose material (e.g. stones) and grease/oil.
- Apply polymer modified emulsion on dry surface.

Pre-tack coat
- 250–300 g/m² polymer modified emulsion 60% depending on type and substrate, at high application temperatures with a softening point > 53 °C.

Application
- Apply S&P Glasphalt® G on dry surface, either by machine or manually, and if possible immediately before the installation of the road surface.
- Apply at temperatures > 3 °C. Observe relevant norms for application of layers.
- Ensure overlapping lengths of 10–20 cm are observed.
- Overlapping of the reinforcement mesh should be optimised, according to the nature and location of joints/cracks, as well as wheel loading.
- If the mesh is applied only on local areas, it shall be covered manually with an asphalt layer. This prevents debonding caused by passing vehicles.
- Minimum covering of 4 cm above S&P Glasphalt® G.

Note: Unrolling equipment is available on a rental basis. S&P will assist and/or carry out the work if requested.

<table>
<thead>
<tr>
<th>S&amp;P GLASPHALT® G</th>
<th>Longitudinal</th>
<th>Transversal</th>
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<tbody>
<tr>
<td>Mechanical properties</td>
<td>Unit</td>
<td>Glass fibre</td>
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<tr>
<td>E-modulus</td>
<td>N/mm²</td>
<td>≥ 73 000</td>
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<tr>
<td>Elongation at rupture</td>
<td>%</td>
<td>≤ 4.5</td>
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<tr>
<td>Tensile force</td>
<td>kN/m</td>
<td>120 at ≤ 3% Elongation</td>
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<tr>
<td>Fibre cross section</td>
<td>mm²/m</td>
<td>46 (50 fibre strands)</td>
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<tr>
<td>CE-marking</td>
<td></td>
<td>According to EN 15381:2008</td>
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</table>
Different European codes resp. guidelines for asphalt pavement recommend a shear bonding strength $> 12$ or $15$ kN (Leutner method) $> 0.68$ N/mm² (tensile test) for multilayer asphalts.

This recommended shear bond is achieved by S&P Glasphalt® G in practice without additional SAMI surface dressing on top of the asphalt reinforcement.

Test reports are available upon request.

S&P Glasphalt® G contains glass fibres. During its handling precautions must be taken including the use of protective clothing and gloves, thus avoiding contact with skin. Safety data sheets are available upon request. Further information is available on the material safety data sheet and the product packaging. Safety data sheets can be obtained by contacting our customer support services +41 41 825 00 70 or emailing info@sp-reinforcement.eu.

S&P’s range of products are for industrial use. They must be installed by specialised personnel and competent professionals with adequate training. The installation instructions must be followed and can be found in S&P application manuals and several "Guideline" documents / existing technical notes.

The information in this technical data sheet is valid for products delivered by S&P Clever Reinforcement Company AG, Switzerland. Please note that the information in other countries may differ, and always use the local product data sheet in each respective country.

The rights to make changes to product specifications are reserved. Furthermore, our general sales and delivery terms apply. The current, most recent product data sheet is valid, and should be requested from us.