



## S&P ASPHALT REINFORCEMENT

Realising a sustainable and  
durable infrastructure





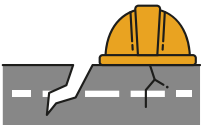
## Why Asphalt Reinforcement

In today's rapidly evolving world, maintaining a modern and sustainable infrastructure is essential for supporting growing populations and dynamic economies. Asphalt reinforcement plays a crucial role in this development by enhancing the durability and longevity of our roads and highways. Discover how asphalt reinforcement is paving the way toward a sustainable future.



### **Increasing traffic numbers & loads**

As our roads are being more heavily trafficked and loaded, the need for maintenance becomes more and more prevalent. By addressing structural weaknesses, asphalt reinforcement improves road safety for all users.



### **Aging infrastructure**

As our infrastructure ages, the demand for swift, resilient, and sustainable solutions to revitalise our road networks has never been greater.



### **Fast, durable & economical**

With time being of the essence, asphalt reinforcement offers a rapid repair option, minimising disruption to road users. Long-term savings are achieved through reduced maintenance needs and enhanced longevity of the road surface.



### **Efficient & optimal solutions**

These products extend the lifespan of roads, reducing the frequency of repairs and associated costs. By distributing loads more evenly, asphalt reinforcement mitigates cracking and rutting, preserving the integrity of the road surface.



### **Versatile use to extend service life**

Asphalt reinforcement leads the way in modernising road maintenance practices. Suitable for various climates and traffic conditions, it offers a versatile solution for diverse road networks.



### **Need for sustainable construction**

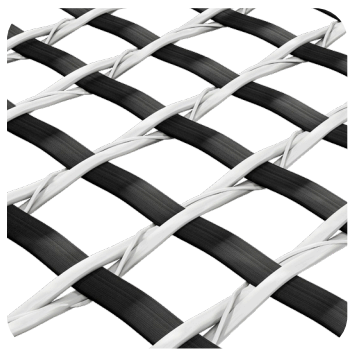
Embracing eco-friendly techniques, these solutions align with modern sustainability goals, promoting greener infrastructure development.

**“Asphalt reinforcement  
isn't just a trend;  
it's a vital component  
in the evolution  
of our infrastructure”**

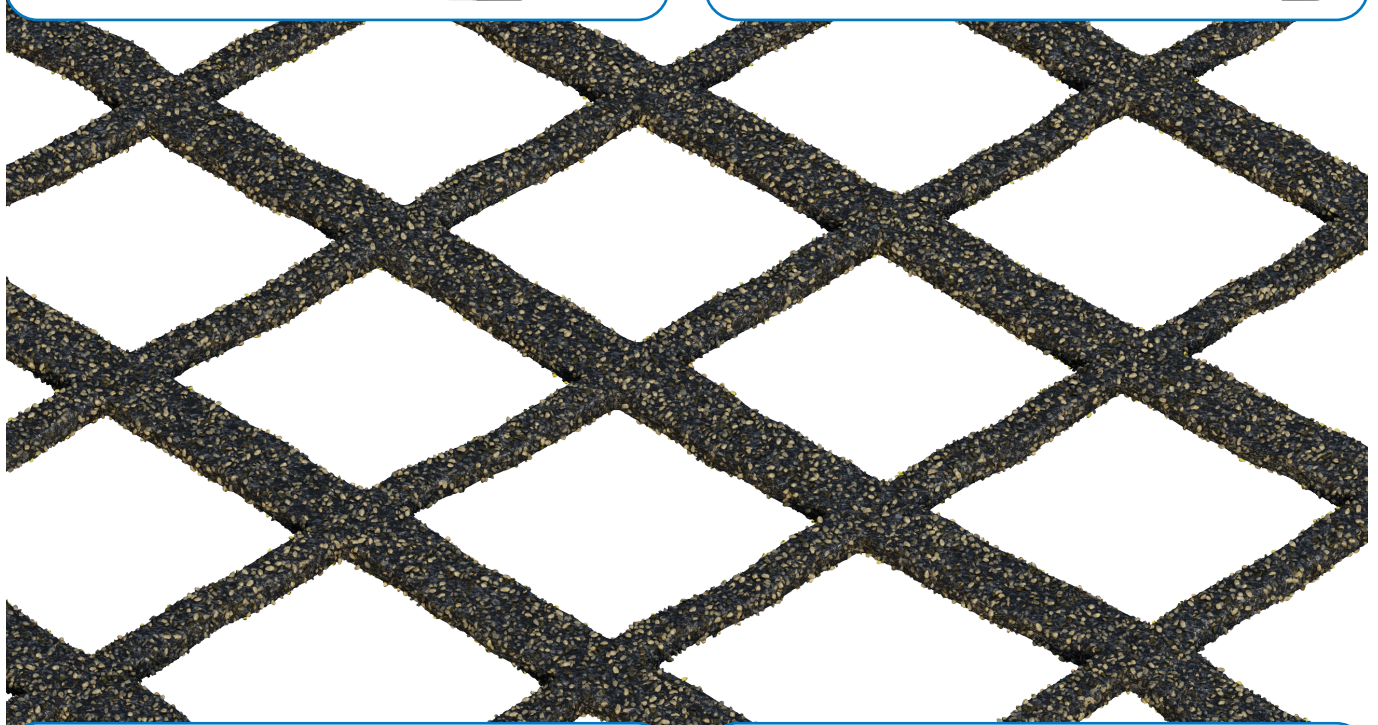
## Why S&P Asphalt Reinforcement

Enhance the longevity and durability of your asphalt pavements with S&P asphalt reinforcement grids. Designed to mitigate reflective cracking and increase load bearing capacity, our innovative grids extend the life of road surfaces, reducing maintenance costs and enhancing safety. Easy to install and compatible with various asphalt overlays, S&P reinforcement grids offer a reliable solution for improving structural integrity and performance. Invest in sustainable pavement management with S&P, ensuring smoother, more resilient roads for years to come.

High-strength glass and carbon fibre grids, designed to absorb high forces even with minimal elongation, making them the ideal reinforcement solution for asphalt applications.

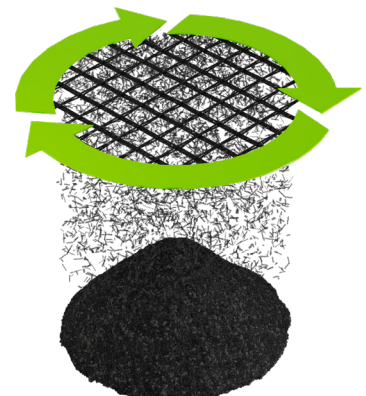


Adaptable grid weaving, in combination with bitumen impregnation, ensures ease of installation and excellent layer bonding, providing a seamless and efficient reinforcement solution for your projects.




Complete bitumen impregnation creates a robust matrix between the fibres, ensuring efficient force transfer and protecting the fibres during overlay for enhanced pavement durability.

S&P asphalt reinforcement grids are fully millable and recyclable due to their glass and carbon fibre composition. Proven in real road conditions and lab tests, they support sustainable infrastructure.





## The Products

	REINFORCEMENT LEVEL		
	+		+++
	S&P Glasphalt® G	S&P Carbophalt® G	S&P Carbophalt® G 200/200
	Universally reinforces new asphalt layers, reducing stress, damage and cracking while enhancing durability.	Carbon fibre reinforcement increases stiffness, strength and load capacity while allowing minimal overlay thickness.	With carbon fibres in both directions, it withstands the highest loads, ideal for airports, ports and logistics areas.
Fibres	Glass / Glass	Glass / Carbon	Carbon / Carbon
E-Modulus (N/mm <sup>2</sup> )	≥ 73 000 / ≥ 73 000	≥ 73 000 / ≥ 265 000	≥ 240 000 / ≥ 265 000
Tensile strength (kN/m)	120 / 120	120 / 200	200 / 200
Elongation (%)	3 / 3	3 / 1.5	1.5 / 1.5

## FUTURE PROOF



Our verified EPDs ensure full transparency, allowing accurate life cycle assessments and informed sustainable choices.



Our products are tested and proven to be compatible with Warm Mix Asphalt, aligning with the industry's shift toward sustainable, lower-temperature asphalt.

## QUALITY ASSURANCE

Our asphalt reinforcement grids are all manufactured in Europe, resulting in shorter lead times and more flexibility when it comes to market demand.

The asphalt reinforcement grids we supply are subject to a variety of quality checks and controls, resulting in them all being CE-marked according to EN 15381.

As quality is at the heart of everything we do, all of our manufacturing facilities and production plants across Europe are certified according to ISO 9001.

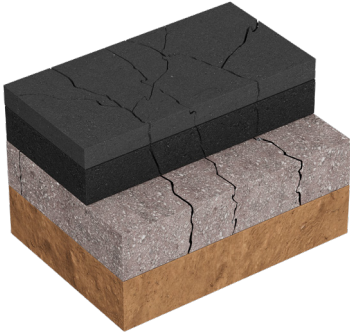




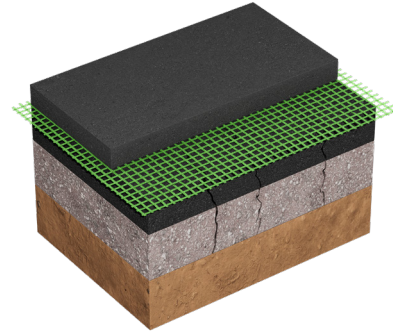
## Effect

S&P Asphalt reinforcement solutions offer substantial benefits in addressing the most common types of damage to road bodies, including cracking, fatigue and rutting. The products are meticulously designed and manufactured to meet specific needs, utilising fibres that enhance the structural integrity of asphalt pavements.

### PREVENTION OF CRACK REFLECTION

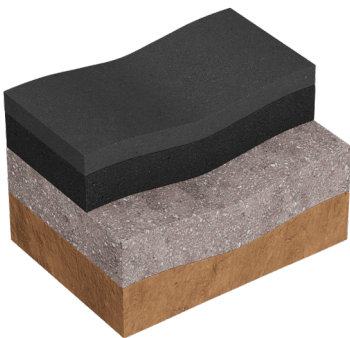


Cracked pavement without S&P asphalt reinforcement

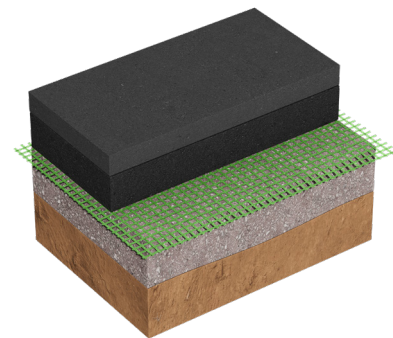


S&P asphalt reinforcement delays the propagation of cracks through new layers

### INCREASING FATIGUE LIFE AND REDUCING DEFORMATIONS



Rutting and fatigue occurs without S&P asphalt reinforcement



The incorporation of S&P asphalt reinforcement increases the pavement flexural strength

## Solutions for all loads



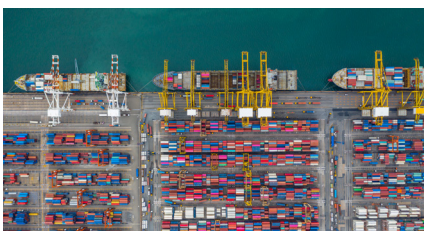
Rural lanes & roads



Urban roads



Motorways & Highways



Ports & Harbours



Bus stations



Airports



## Benefits

### BENEFITS FOR ROAD AUTHORITIES AND OWNERS



#### Economical solutions

- Extension of service life and reduction of maintenance cycles
- Long-term investments in durable pavements



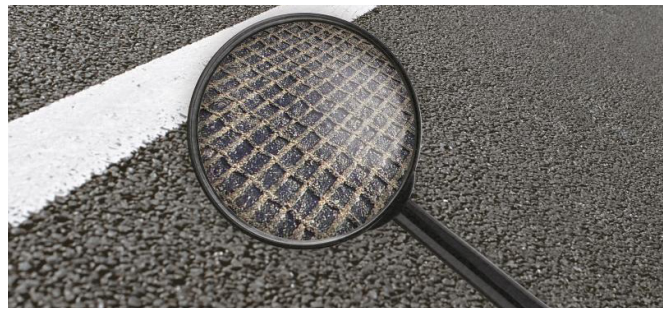
#### Sustainable solutions

- Reduction of energy and raw material consumption and emissions
- Easily millable and recyclable at end of service life



#### Expertise you can rely on

- Experienced team capable of handling both simple and complex projects
- Tailored solutions to meet your specific needs



#### Solutions that truly resolve the problem

- Support investigating the cause before offering expert advice
- Focus on sustainable solutions rather than temporary fixes



#### Tried and tested solutions

- Demonstrated performance across a wide range of projects
- Countless km's of performing roads



#### Support whenever you need it

- Assistance during conception to completion and beyond
- Tailored training available to suit your needs

Find out more:





## Benefits

### BENEFITS FOR ENGINEERS, PLANNERS AND SPECIFIERS



**Extensive experience and effective solutions**

Since 1995, S&P has specialised in infrastructure, offering tailored solutions that address specific problems and provide peace of mind.

**Skilled in-house engineers and industry collaboration**

S&P's team of engineers and industry experts provide accessible support and stay updated with the latest developments through strong regional connections.

**Comprehensive knowledge and global implementation**

Decades of experience and successful global projects enhance S&P's ability to offer optimal solutions tailored to various conditions.

**End-to-end project support**

S&P supports partners throughout all project phases, from planning and design to on-site guidance and beyond, ensuring project success.



Find out more:

### BENEFITS FOR THE CONTRACTOR



**Jobsite support and training**

New to installing S&P asphalt reinforcement? Our branches provide support and training to assist with the installation of our asphalt reinforcement grids!



Find out more:



**Installation technology**

S&P provides specialised machines designed for safe and efficient installation on projects of any complexity or size.



Since 2012 S&P has been part of Simpson Strong-Tie, an international building products company based in California with multiple locations across Europe.

The company is committed to helping customers succeed by providing exceptional certified products, full-service engineering and field support, product testing and training, and on-time product delivery.



A Simpson Strong-Tie® Company

