

Profitable & ECO-Consconscious Ways to Increase Asphalt Pavement Durability



Fiber
Roads®



SMAPOL[®]
JUST ADDITIVE



GRANULAR HIGH STRENGTH SYNTHETIC FIBER

**Durable and stable
asphalt mixes**

SGS



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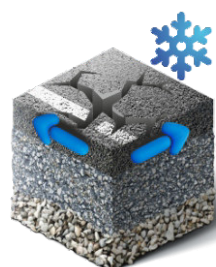
SMAPOL[®]
JUST ADDITIVE

Stabilizing additive for SMA asphalt mixes



Optimal technological properties

Prevents binder drainage for SMA and other gap-graded asphalt mixes



Increased structural resistance

Increases rutting resistance, water resistance, and frost resistance, and reduces the likelihood of low temperature and fatigue cracks for all types asphalt mixes



Easy dosage

Possibility of use with various dosing equipment for any granular stabilizers



Easy storage

Enhanced hydrophobicity of the granules surface maintains its properties even after ingress of moisture into the package

Form: cylindrical granules, length 5-25 mm, diameter 6 or 4 mm

Dosage: from 0.2% to 0.6% by asphalt mix weight

Packaging: big bags of 500 kg and plastic bags of up to 20 kg

Bulk density: 400-500 kg/m³

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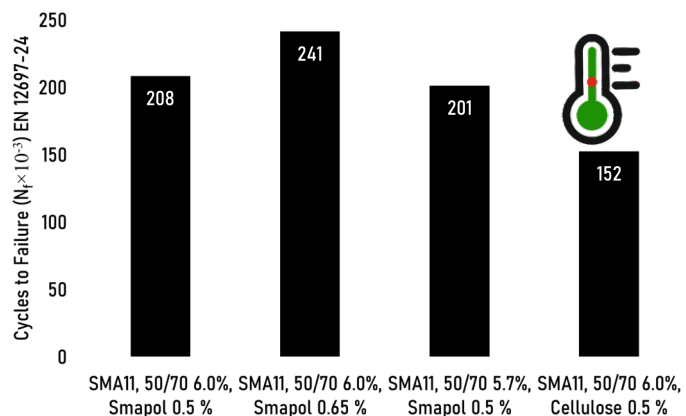
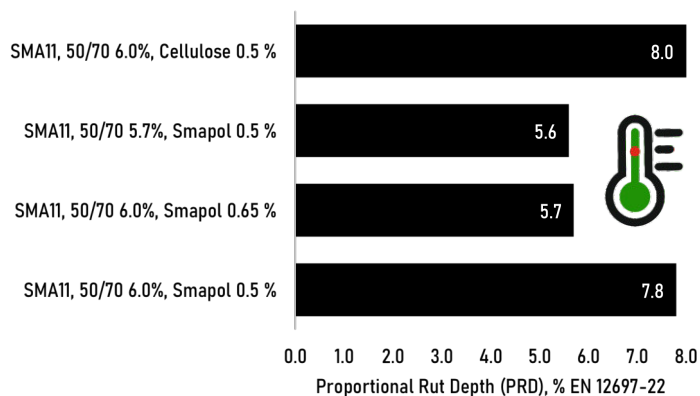
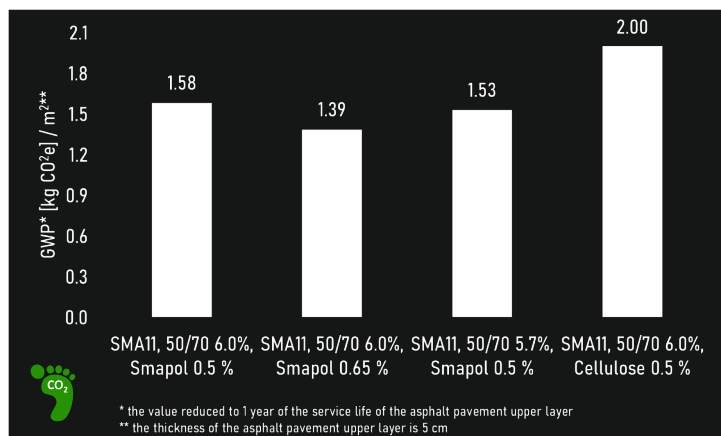
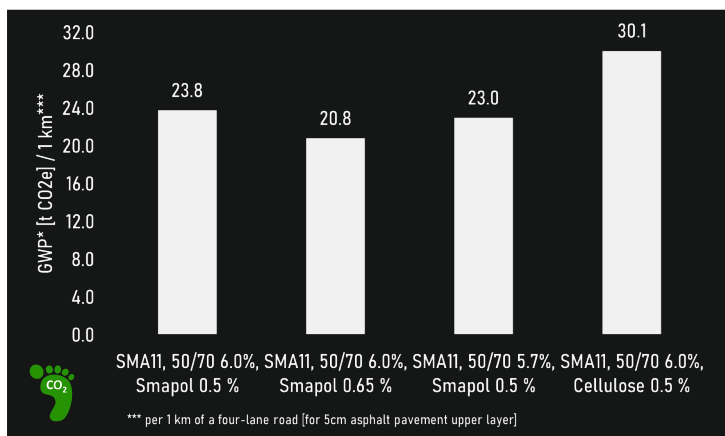
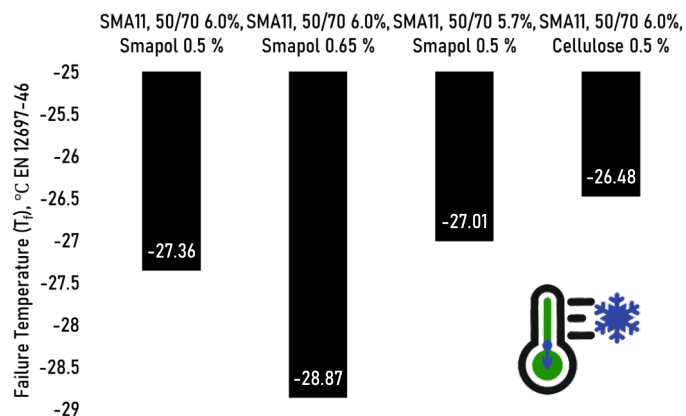
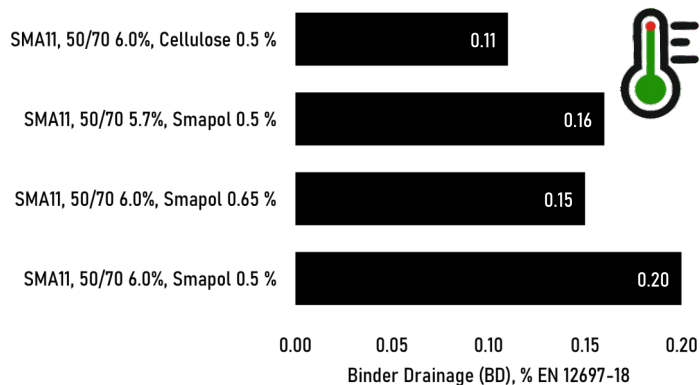


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Green[®] Powder



RUBBER POWDER WITH HIGH SPECIFIC SURFACE AREA

Effective rubber
modified asphalt



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Green[®] Powder

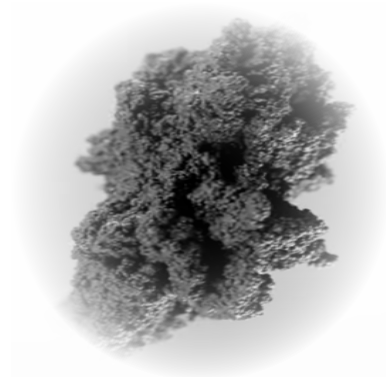


Stable asphalt rubber

**CONVENTIONAL
RUBBER POWDERS**



**Green[®]
Powder**



0-0.4 mm 0-0.6mm 0-0.8 mm

10 min

30 min

SGS



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Green[®] Powder



Efficient asphalt rubber

ITSR, %
EN 12697-12

96

93

6.90

PRD_{air}, %
EN 12697-22

5.20

0.06

WTS_{air},
mm/10³ cycles
EN 12697-22

0.04

0.20

BINDER
DRAINAGE, %
EN 12697-18

0.10

TSRST, °C
EN 12697-46

-26.1

250 000
tons HMA

162 000
tires



**SMA 11 S
ASPHALT RUBBER**

**SMA 11 S
PMB 45/80-55**



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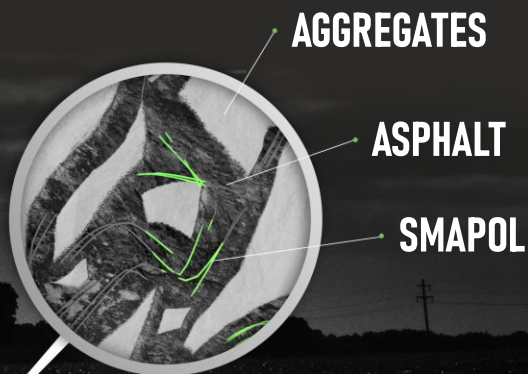
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FiberRoads®

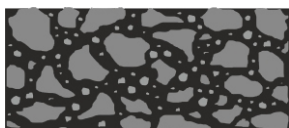
DURABLE ASPHALT PAVEMENTS



SMAPOL® additive due to optimal sorption properties and low degree of swelling of the main component – synthetic fiber, provides microstructural reinforcing of asphalt mixtures of all types, which allows for increasing the durability of asphalt pavements during their service life



GAP-GRADED ASPHALT MIXTURES
SMA, AC Duopave, BBTM, PA, MA, etc.



ASPHALT CONCRETE MIXTURES



HOT RECYCLED ASPHALT MIXTURES



COLD RECYCLED ASPHALT MIXTURES

- INCREASED RAP CONTENT
- INCREASED STRENGTH AND RESISTANCE TO DEFORMATION
- INCREASED TECHNOLOGICAL STABILITY OF GAP-GRADED ASPHALT MIXTURES
- INCREASED DURABILITY OF ASPHALT MIXTURES
- REDUCED CARBON FOOTPRINT OF ASPHALT PAVEMENTS
- INCREASED PROFITABILITY OF ROAD PROJECTS
- INCREASED TECHNOLOGICAL STRENGTH OF THE RECYCLED COLD ASPHALT MIXTURES – earlier opening of traffic, reducing the construction time of the upper layers, etc.



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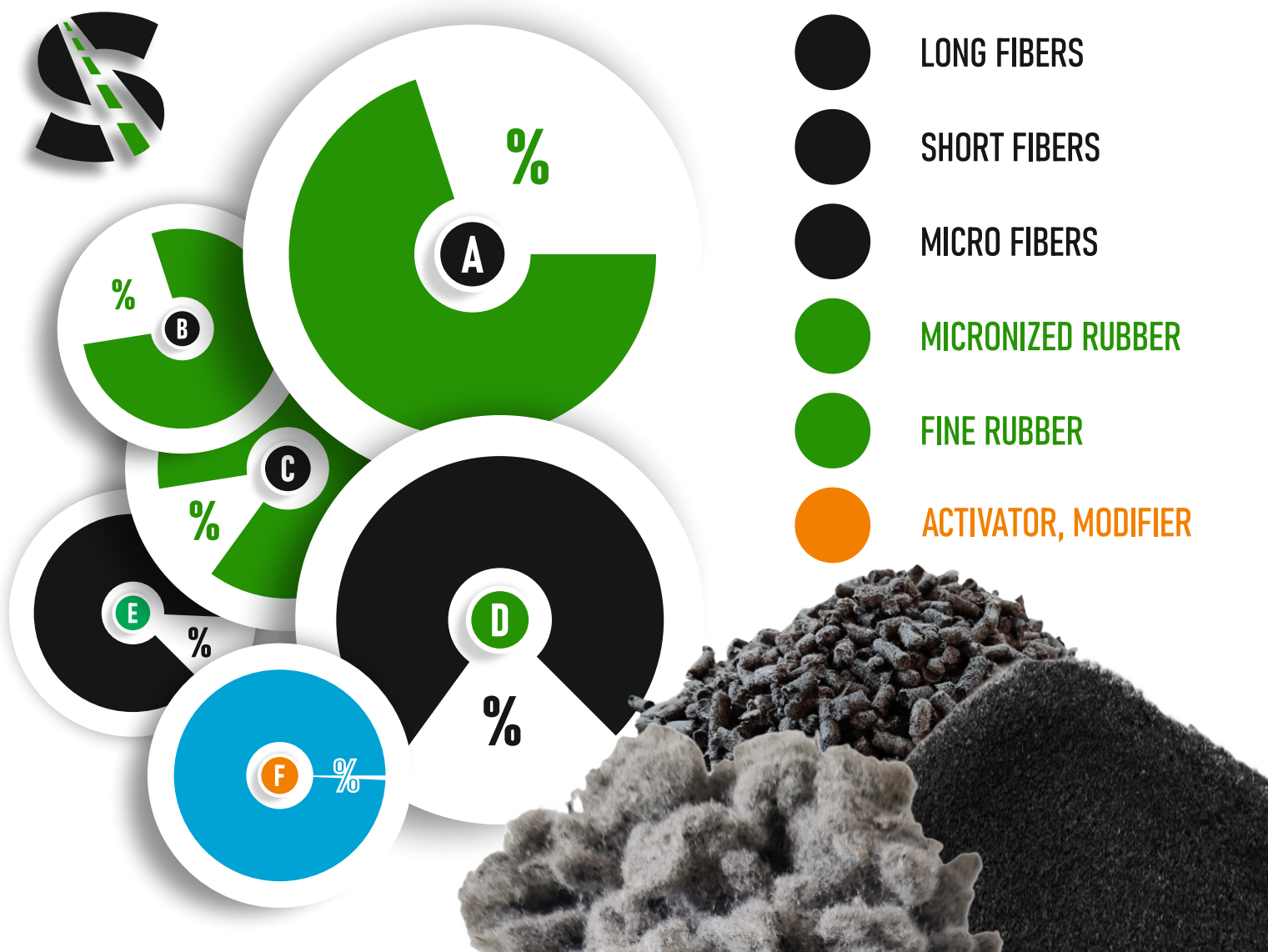
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FiberRoads®

Take SMAPOL® you need



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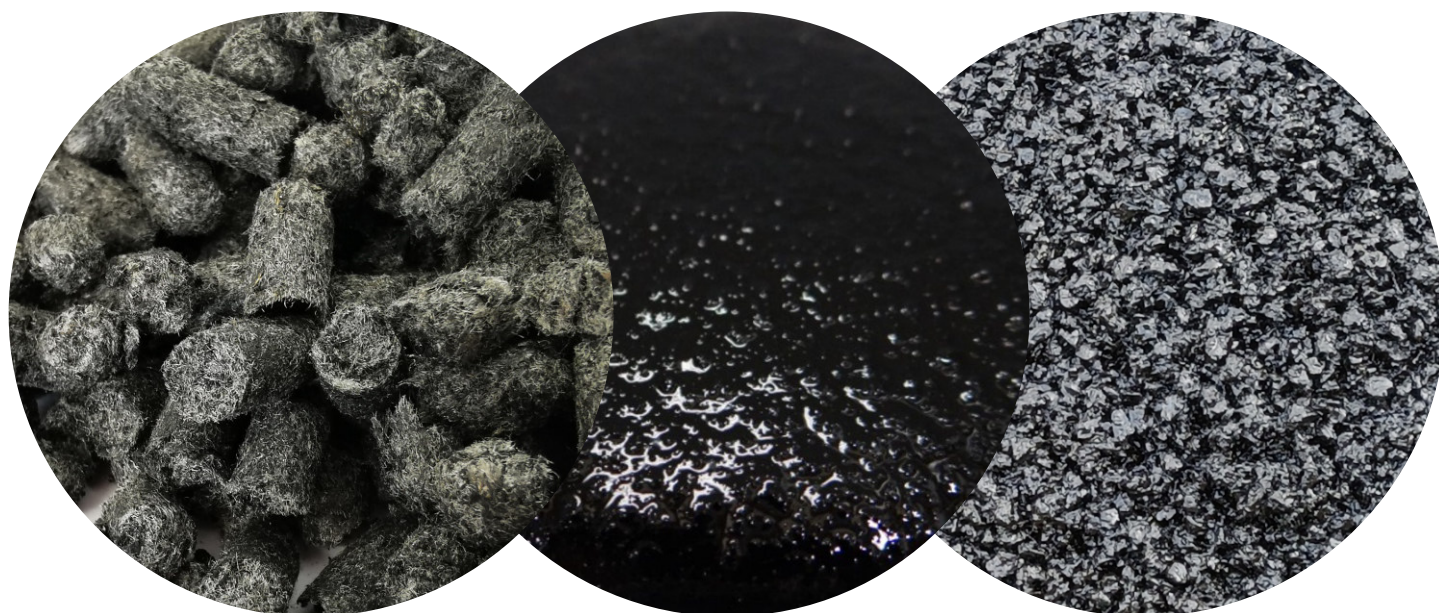
FiberRoads®

Successful Synergy



SMAPOL®
JUST ADDITIVE

**Green®
Powder**



FIBER-REINFORCED ASPHALT RUBBER MIXTURES

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Sustainability and Resilience

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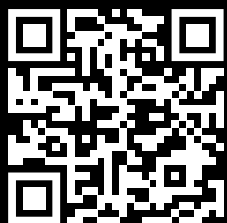
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SMAPOL[®]
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**ROADS FOR TYRES
TYRES FOR ROADS**



**Fiber
Roads[®]**

