

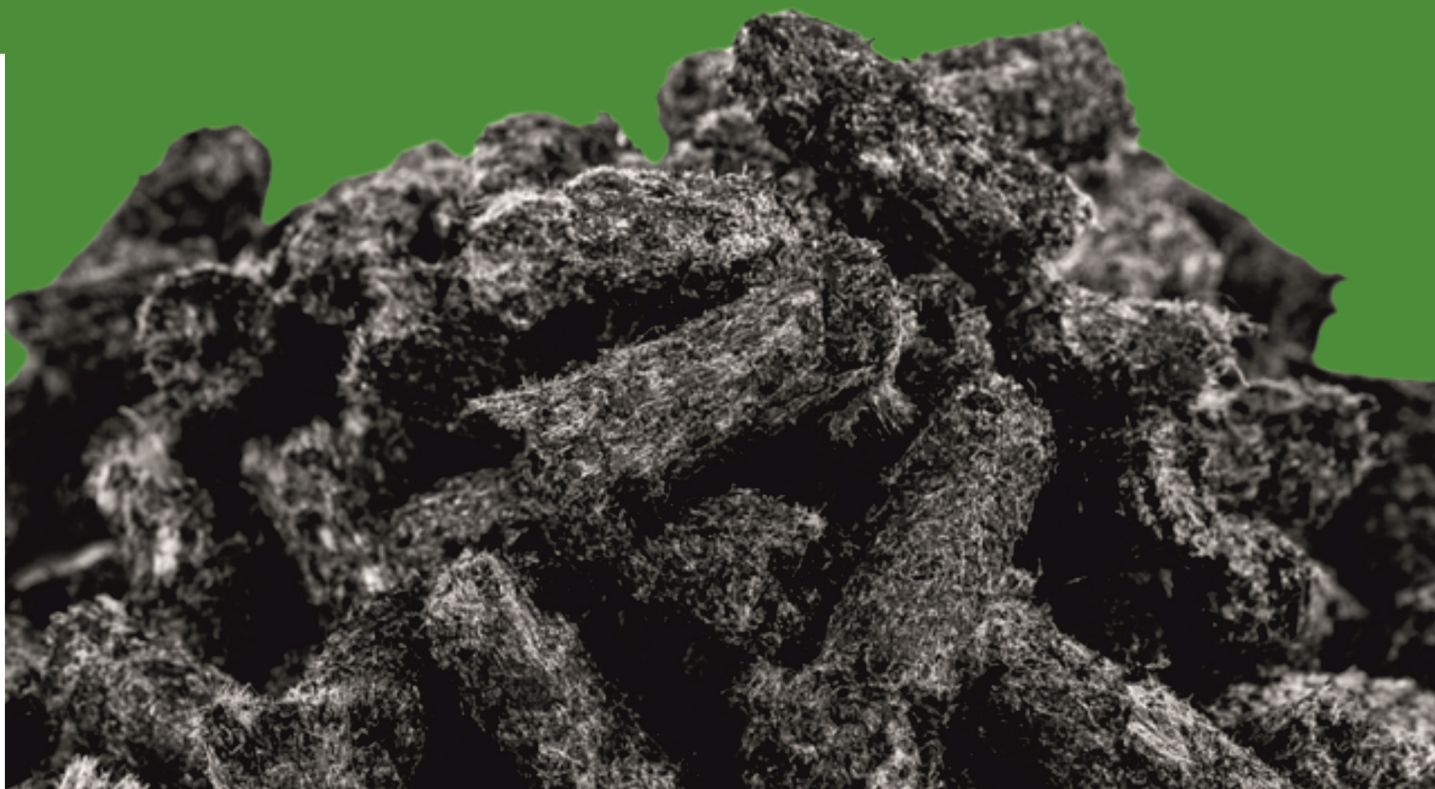
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**SMAPOL**<sup>®</sup>  
JUST ADDITIVE

# DISPERSED-REINFORCING STABILIZING ADDITIVE FOR HOT ASPHALT MIXES

**BASED ON SYNTHETIC FIBRES**



## SMAPOL<sup>®</sup> Functional Simplicity...

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## What is this ?

- ! **SMAPOL<sup>®</sup> additive is the most cost-effective way to improve the physico-mechanical properties of hot asphalt mixes (HMA) among known analogues based on the method of use**
- ! **SMAPOL<sup>®</sup> additive is a non-toxic, water-insoluble cylindrical granules (pellets) with a bulk density of 410.0 to 460.0 kg/m<sup>3</sup> in dark gray (black-gray) color. The average length of the granules is from 5 to 25 mm, the thickness (diameter) is 6.0 ± 1.0 mm**
- ! **SMAPOL<sup>®</sup> additive provides stability to delamination, segregation and fluidity of the asphalt binder, as well as dispersed reinforcement the structure of HMA with an increased content of bitumen, such as stone mastic asphalt (SMA), mastic asphalt (MA) and others. It can also be used as a dispersed-reinforcing additive to other types of HMA, with appropriate technical and economic justification**
- ! **SMAPOL<sup>®</sup> in comparison with stabilizing additives based on cellulose fiber provides an optimal degree of bitumen absorption, which allows, with a lower bitumen content, to achieve not only higher strength and deformability indicators, but also higher indicators of water resistance and frost resistance (including corrosion resistance) of improved HMA**
- ! **Road pavements made of HMA enhanced with the addition of SMAPOL<sup>®</sup> differ not only in increased structural uniformity, but also increased resistance to ruts, low temperature cracking and fatigue**
- ! **SMAPOL<sup>®</sup> can be used in the construction of road pavements of highways, city streets, airports, driveways, parking lots and squares in all road-climate zones**
- ! **The innovative method of SMAPOL<sup>®</sup> granular additive production allows to take full benefits of the advantages of each type of fiber to stabilize and dispersed reinforcement of HMA in order to increase reliability and durability**
- ! **The component composition of SMAPOL<sup>®</sup> additive and the mechanical properties of the cylindrical granules obtained in the pelleting process under appropriate optimal conditions, ensure that it can be fed into the mixer of the asphalt mixes plant by any of the known methods and evenly mixed during the production of HMA at standard temperature and technical process**
- ! **Typically, SMAPOL<sup>®</sup> additive during HMA production is fed directly from the big-bags into the mixer in an automatic way (via a screw or pneumatic feeder)**

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# All advantages in one additive

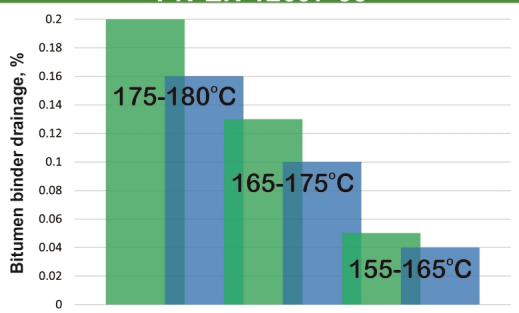
## SMAPOL<sup>®</sup> vs CELLULOSE ADDITIVE

**BITUMEN 50/70**

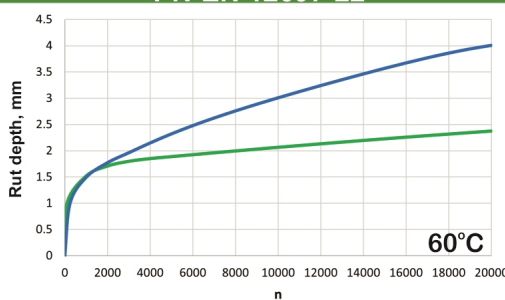
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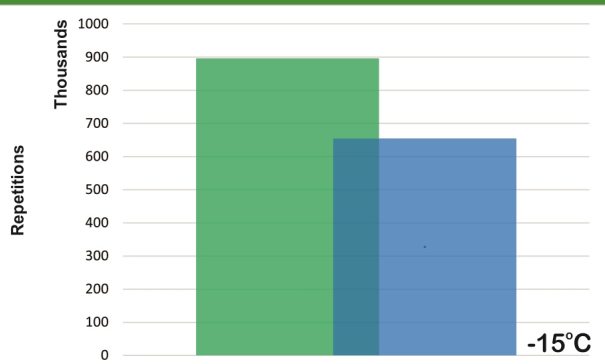


PN-EN 12697-22

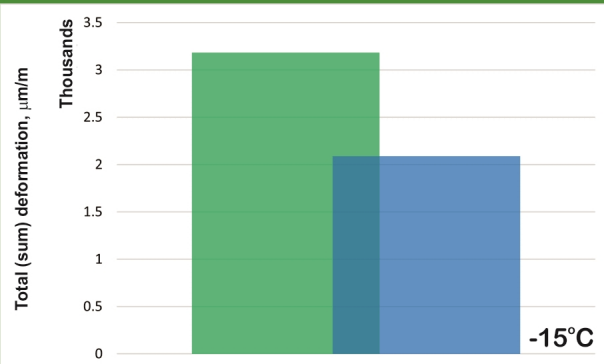


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PN-EN 12697-46



3



**1** **Technological stability** of hot asphalt mixes at high working temperature without delamination, segregation and bitumen binder drainage

**2** **Rutting resistance** of asphalt road pavements from the action of transport loads in high exploitation temperature

**3** **Resistance to cracking** of asphalt road pavements at low exploitation temperatures in action of transport loads

**Great advantages with low consumption - 2-6 kg per 1 ton of hot asphalt mix AC, SMA, MA, BBTM, AUTL, PA itp.**

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**THE FUTURE OF ROAD CONSTRUCTION -  
ALREADY TODAY!**

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