

Product Data Sheet

Lucocell®PE3700

1. Product description

Lucocell®PE3700 granules are designed for SMA –Stone Mastic Asphalt or Split Mastic Asphalt, which is used as finish for all road types, including motorways with high frequency traffic, fast roads, roads with high traffic loads, bike paths and sidewalks. Due to their 3D structure, cellulose fibers maintain a comparatively high viscosity of bitumen, thus preventing its seepage and formation of asphalt mix segregation at high temperatures during storage, transport and SMA placing. At the same time they enable creation of a thicker bitumen layer around each rock particle, thus preventing oxidation, moisture penetration and lifting or cracking of the aggregate. Lucocell®PE3700 is a cellulose containing masterbatch and is very safe and easy in handling.

The advantage of granules is the quicker distribution in the mineral mass during dry mixing.

Due to the pre-dispersion of cellulose fibers in the ethylene- copolymer matrix (EBA) of Lucocell®PE3700 the fibers release easily and safely for increased efficiency and improved production quality. Lucocell®PE3700 is ideal for use in automated batching.

2. Dosage

For dosage of Lucocell®PE3700 shall be introduced centrally into the mixer. The standard dosage rate of cellulose fiber is 3,0-4,0 kg per ton of asphalt mix.

To achieve this result batch-sized bags, gravimetric or volumetric fiber blowing systems can be used. gravimetric system is preferred for receiving the records about the accurate quantity of fibers in the mix. If a volumetric system is used, it should be calibrated frequently

3. Mixing Sequence

The microgranules of Lucocell®PE3700 shall be added centrally into the mixer approx. 5-15 seconds prior to the addition of bitumen and even distribution of the fibers in the mix. In case the fibers are pre-dispersed by means of a automatic fiber blowing device the dry mixing of the fibers might not be necessary

4. Packaging and Storage

Lucocell®PE3700 is delivered in Big-Bags (500/1000 kg) packed on wooden pallets, shrink wrapped and additionally protected with a PE rain cover. Even this packaging protects the material from rain we recommend dry storage under roof. Please make sure that the rain cover is placed back on the material after part of it has been used. Pallets without damages on the packaging can be stored in the warehouse in dry condition for 2 years

Technical Data

Character	Value	Unit
Appearance	Grey granule	-
Bulk density	Approx. 370	g/l
Basic fiber	Value	Unit
Average fiber length	Approx. 1100	µm
Average fiber diameter	Approx. 45	µm
Typical screen analysis	Value	Unit
Less than 2500µ	100	%
Less than 800µ	Min. 55	%
Less than 200µ	Min. 30	%
Polymer	Value	Unit
Ethylene Copolymer (EBA)	37	%

These standard values are typical values and should not be regarded as specifications.

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