

Product Data Sheet Lucocell® PE3700

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 fibres 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. We strongly recommend to pay attention to the below mentioned aspects of use. The advantage of granules is the quicker distribution in the mineral mass during dry mixing.

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

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.

Dosage

For dosage of Lucocell[®] PE3700 shall be introduced centrally into the mixer. The standard dosage rate of cellulose fibre is 7 kg per ton of asphalt mix. To achieve this result batch-sized bags, gravimetric or volumetric fibre blowing systems can be used. A gravimetric system is preferred for receiving the records about the accurate quantity of fibres and polymer (EBA) in the mix. If a volumetric system is used, it shoud be calibrated frequently.

Mixing Sequence

The mircrogranules 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 fibres in the mix. In case the fibres are pre-dispersed by means of a automatic fibre blowing device the dry mixing of the fibres might not be necessary.

The total mixing time for SMA according to the German recommendations (Leitfaden Splittmastixasphalt, Dezember 2000) should be minimum 53 seconds. This time includes 8 seconds for discharging the mixer.

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Value	Unit
Grey granule	-
Approx. 370	g/l
Value	Unit
Approx. 1100	μm
Approx. 45	μm
Value	Unit
100	%
Min. 55	%
Min. 30	%
	Grey granule Approx. 370 Value Approx. 1100 Approx. 45 Value 100 Min. 55

Note

The information provided in this document is based on our product tests and present technical knowledge. It does not release purchasers from the responsibility of carrying out their receiving inspections. Neither does it imply any binding assurance of suitability of our products for a particular purpose. As LUCOBIT cannot anticipate or control the many different conditions under which this product may be processed and used this information does not releive processors from their own tests and investigations. Any proprietary rights as well as existing legislation shall be observed.