LUCOBIT
THERMOPLASTIC POLYOLEFINS

LUCOSOL®

LUCOSOL® – THE RIGHT CUTBACK BITUMEN FOR ALMOST ANY APPLICATION

... make better roads

LUCOSOL® – LOW VISCOSITY FOR EASY PROCESSING AND HIGH BITUMEN CONTENT FOR SUPERIOR STRENGTH

THE PRODUCT

Lucosol® is a solvent based bitumen road binder made out of selected bitumen qualities and hydrocarbon solvents. Due to low viscosity Lucosol can be used even at low temperatures. Lucosol® can penetrate pavements very effectively and also allows spraying. After applying the solvent bitumen will evaporate and leave the remaining material in a condition similar to that of the orgininal bitumen.

THE ADVANTAGES

Lucosol® has proven fully satisfactory for preserving and repairing roads and paths. Compared to bitumen emulsions Lucosol® has a much higher residual bitumen content. Therefore, after curing the bitumen cement left on the road is more for the same volume of binder applied. Lucosol® is characterized by:

- Excellent adhesive strength to almost all rocks
- Long-term effectiveness in the storable mix
- Frost resistance
- Environmental compatibility

PROCESSING

Lucosol® is processed at temperatures between 60 - 70 °C. When storing the mix in heatable tanks special attention is to be paid to the fact that the storage temperature does not exceed 85 °C.

Nearly all rocks can be used as mineral. A suitability test with regard to the compatibility and the amount added has to be carried out for every single case. During the mixing process the rock temperature should not exceed 100 °C, the optimal temperature is between 80 and 90 °C. In case of dry and clean chippings no warming is necessary.

THE APPLICATIONS

Lucosol® is a bituminous road binder to be mixed on site together with defined crushed chippings (e.g. size: 2/4 mm + size 4/8 mm, or 0/2 mm + 2/5 mm + 5/8 mm + 8/11 mm + 11/16mm suitable for immediate road (asphalt concrete) repairs such as partial frost damages or repairs of trench works a.s.o. Lucosol® is used for the production of storable cold mix in hot mix plants.

LUCOSOL® – PERMITTING EFFECTIVE PENETRATION OF PAVEMENTS AND ALLOWING SPRAY APPLICATIONS EVEN AT LOW TEMPERATURES

In order to determine the optimal binder content suitability tests have to be carried out. The amount added basically complies with the mineral grading. A grading range of 2/5 mm with a maximal undersize grain according to TL Min-StB has proven successful. The right table shows for various commercial grain sizes the optimal content of Lucosol®.

100 wt.-% splitt of the grain size	Lucosol wt.-%
0/2 mm	6.5
2/5 mm	5.6
5/8 mm	5.1
8/11 mm	4.5
11/16 mm	4.0

TECHNICAL DATA

Solid content: **bitumen content** **penetration 100 g, 5 s** **softening point, R&B**	**approx. 70 - 80% of weight** **approx. 70-90 mm/10** **approx. 60 °C**
Viscosity STV 4mm/40 °C D-Viscosity	approx. 90-110 s approx. 2960 mPa.s at 40 °C
Step resistance for ready mixed material	approx. 12 hours depending on temperature and weather conditions
Flash point (Pensky-Martens) **D-Flash point DIN 51758**	**25 °C** **100°C**
Colour	Black
D-Density, DIN 52004, at 25°C	0.90 -0.95 g/cm³
Consumption	**Approx. 5% volume of ready mixed material**
Delivery form D- hazard group according to VBF	Barrel à 200 litre none

Above figures are nominal figures, depending on statistic fluctuations. Technical modifications reserved. It is responsible to the user to check the suitability of the product in case of application and to make sure to be in possession of final release of the data sheet

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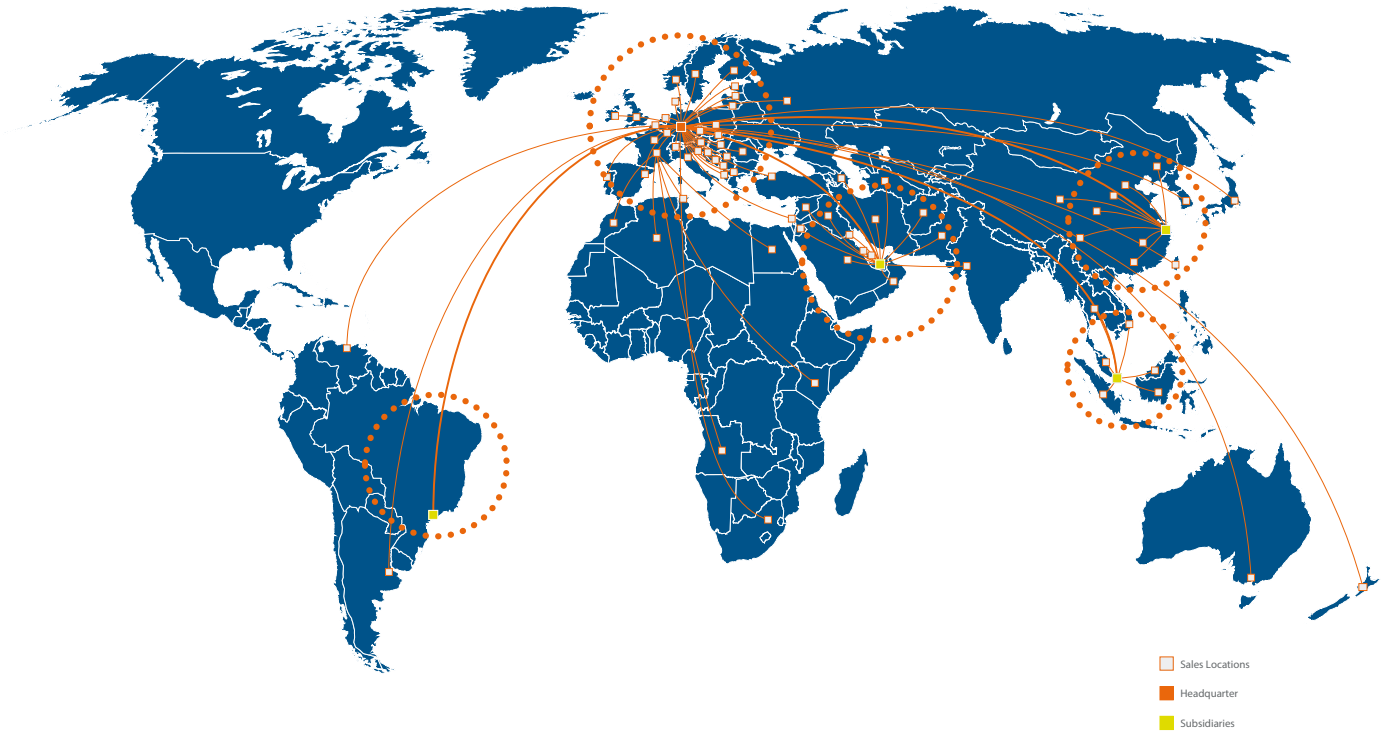
LOCATIONS



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