BIGUMA®
-MS 100 ECO

Bitumen-based binder derived from renewable raw materials
for the production of storable cold mix according to
GISCODE group RepA20 (repair asphalt, solvent-free)

Use

BIGUMA®- MS 100 ECO is used for the production of a storable cold mixture in hot mix plants. The cold mixture is suitable for the removal of road damages within the bounds of the preventive road maintenance and for the filling of potholes, wide cracks and frost heaves.

Properties

BIGUMA®- MS 100 ECO is the ideal binder for the production of cold mixture in hot mix plants as there are no further constructional arrangements necessary except for a storage tank. The binder guided via the normal bitumen pipeline into the mixer. The with BIGUMA®- MS 100 ECO produced storable cold mixture has proved itself best at the maintenance and repair of roads and paths.

BIGUMA®- MS 100 ECO distinguishes itself by the following characteristics:

- very good adhesion power on nearly all kind of stones
- long effectiveness in the storage mixture
- frost resistance
- environmental compatibility
- not hazardous to water (NWG)
- solvent-free
- classified as KMG-F single-component and bio-based according to H RepA

Application instructions

BIGUMA®- MS 100 ECO is processed at a temperature of approx. 60 - 70 °C. At the storage in heated tanks you have to pay attention that the storage temperature does not exceed 85 °C. Furthermore the binder should only be heated for the production as the binder properties could change strongly when keeping the binder permanently warm.
As mineral materials nearly all kind of stone can be used. In any case beforehand a suitability test regarding the compatibility and regarding the dosage has to be made. At the mixing process the stone temperature must not exceed 100 °C, the ideal temperature is between 80 and 90 °C. At dry and clean flint you can do without a heating.
The mixing time is in the same dimension as it is necessary at the production of hot mixture.
The ideal mixing time has to be determined in each individual case by experimental tests.

Suggested formulations

For the determination of the optimum binder content suitability tests have to e made. The dosage depends essentially on the grading of the mineral materials. The grading 2/5 mm proved itself with a maximum undersize in accordance with TL Min-StB.
In the technical data sheet recommendations are made regarding the material consumption.

Storage

In heatable tanks at temperatures up to maximum 85 °C.

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Form of supply

In tank truck, IBC container

Cleaning agent

Equipment:	BIGUMA®- SWS or commercial solvents
At skin contact:	hand washing paste

Technical data

Kind of binder:	Modified special bitumen
Density:	approx. 0.95 g/cm³ at 25 °C
Viscosity:	approx. 5000 mPas at 40 °C
Flash point:	> 100 °C

Material consumption

For the single grading the following binder additions have to be used, whereas the parts by weight refer to the specific grading of mineral materials, which have a bulk weight of 1.5 kg per liter:

Guideline material consumption

100 weight-% flint of the grading	BIGUMA®- MS 100 ECO weight-%
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

Commercial grading has to be sieved to determine the actual grading. The binder doses are mean values and accord long-time experiences at the production of storable mixtures. If the material is mainly used for repair works in thin layers it is advisable to increase the total binder content by 0.5 weight-%.

Suggested formulation for mixture compositions

100 weight-% flint of the grading	fine granulation	coarse granulation
Fine flint 5/8	- weight-%	37.7 weight-%
Fine flint 2/5	84.8 weight-%	37.7 weight-%
Crushed stone fines, natural sand 0/2	9.4 weight-%	18.9 weight-%
BIGUMA®- MS 100	5.8 weight-%	5.7 weight-%

This product information corresponds to our latest available information. The processor is obliged to test the suitability and application options for the intended purpose. We shall be pleased to advise if you have any questions about our product. Our Terms and Conditions of Business apply, which can be found at www.dga.de.

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