BIGUMA®
-MS 100 K2 NWG

Additive-enhanced special bitumen concentrate
for the production of storable cold mixes

Use

BIGUMA®- MS 100 K2 NWG is used for the production of a storable cold mixture in hot mix plants.
For this purpose, BIGUMA®- MS 100 K2 NWG is mixed in a ratio of 1:1 with road bitumen of grade B70/100 or B50/70 in the asphalt mixing plant. The bitumen is preferably added to the asphalt mixer before BIGUMA®- MS 100 K2 NWG.
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 K2 NWG is an ideal binder for the production of cold mix in hot-mixing plants, because apart from a storage tank or an IBC addition to the mixer no further constructional measures are necessary. The binder concentrate has been developed to minimise transport costs and storage volume.
BIGUMA®- MS 100 K2 NWG contains all the necessary additives, enhancements and plasticisers for the production of a high-quality, storable cold mix. Only road bitumen is required to set the desired viscosity at the asphalt mixing plant.
The storable cold mix produced with BIGUMA®- MS 100 K2 NWG and road bitumen has proven itself in the maintenance and repair of roads and paths.

BIGUMA®- MS 100 K2 NWG distinguishes itself by the following characteristics:

- Very simple mixing ratio:
  - one part BIGUMA®- MS 100 K2 NWG
  - one part road bitumen of the grades B70/100 or B50/70
- Minimises freight and storage costs
- very good adhesion power on nearly all kind of stones
- long effectiveness in the storage mixture
- If the quantity added is <3 %, the cold mix produced must be classified in water hazard class NWG
- frost resistance
- environmental compatibility

Application instructions

BIGUMA®- MS 100 K2 NWG is processed at a temperature of approx. 20 - 70 °C. At the storage in heated tanks you have to pay attention that the storage temperature does not exceed 85 °C.
BIGUMA®- MS 100 K2 NWG is mixed in the mixing plant with road bitumen of the grades B70/100 or B50/70 in a ratio of 1:1 and the mineral additives. BIGUMA®- MS 100 K2 NWG should only be heated for production purposes, as the binder properties may change adversely when exposed to constant temperature.
In any case, a suitability test must be carried out in advance with regard to compatibility and optimum particle size distribution. 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.

Central Sales
Dortmunder Gußasphalt GmbH & Co. KG
Am Hafenbahnhof 10 ■ 44147 Dortmund ■ Germany
+49 231 395797 - 37 info@dga.de www.dga.de

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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.

Storage

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

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
	approx. 14.000 mPas at 30 °C
Flash point:	> 100 °C

Example formulations for mixed material compositions

Building materials		KMG-F 5 [Gew. - %]	KMG-F 8 [Gew. - %]
Delivery grain/ grain group	5/8	-	37.7
	2/5	84.8	37.7
	0/2	9.4	18.9
BIGUMA®- MS 100 K2 NWG		2.8	2.7
Binder (50/70, 70/100)		2.8	2.7

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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