

# TECHNICAL DATA SHEET

## Road Material Stabilisers (Pty) Ltd

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### LBS Asphalt

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#### DESCRIPTION:

LBS is a formulated mixture of inert fillers, bitumen extenders and binder enhancers designed to be blended with selected aggregates and water based bituminous emulsion in the manufacture of asphalt for general road surfacing and repair.

#### Typical Mix proportions:

LBS filler	:	20%
Bitumen emulsion (60% nett)	:	9%
Crusher sand (<6mm)	:	50%
6,7/9.5mm roadstone	:	21%

(percentages may vary, refer to manufacturer)

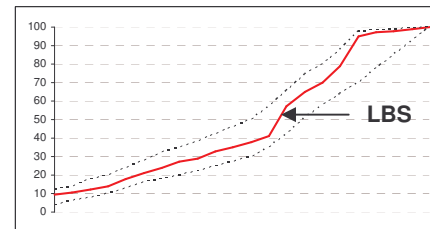
#### BENEFITS:

- The designed grading and properties of the final LBS asphalt mix complies with the requirements for a "fine or medium continuously graded asphalt" according to South African TRH8 Specifications.
- No heating is required during preparation or application of the LBS mix.
- LBS is self priming.
- No specialised equipment required.
- Minimal disruption to traffic, roads can be opened to light traffic immediately after compaction, higher trafficked areas can be opened within a few hours.
- LBS Asphalt is ideally suited to labour intensive construction projects.

#### TYPICAL TEST RESULTS

	LBS	TRH8 Specification
Binder Content	5.5	5.2 – 5.8
VMA	15.2	>14
VIM (%)	5.4	3 – 6
Air permeability x 10 <sup>-8</sup> (cm <sup>2</sup> )	0,2	< 1,0
Marshall stability (kN)	8.5	> 8
Marshall flow (mm)	3.2	2 – 4
Stability/flow	2,7	> 2.5
I.T.S ( indirect tensile strength)	1074	> 800
Immersion index (%)	86	>75

#### Grading curve



#### LBS MIX PREPARATION

- Mix the required quantity of LBS filler, crusher-sand and roadstone.
- Add the required quantity of bituminous emulsion and mix thoroughly.

#### LBS MIX APPLICATION

- Ensure that the base layer is well compacted to the required density and is swept free of loose material.
- Lightly water the base sweeping off any free standing water immediately (*no prime is required*).
- Place the prepared LBS cold asphalt mix at regular intervals and level to the required loose thickness.
- Lightly water the levelled mix.
- Compact using a roller with 4 - 6 passes (*water the drums to assist with sticking of material*).
- Apply additional water if required during compaction. Once the surface becomes saturated with a brown liquid, sufficient water and compaction has been applied.

#### LBS FILLER CHARACTERISTICS

Appearance	- Black granular aggregate mixture
Apparent density	- ±1100 kg/m <sup>3</sup>
Odour	- None

#### HAZARDS

Fire	- non flammable
Explosion:	- non-explosive
Skin	- n/a
Ingestion	- n/a
Eyes	- Possible irritant

#### PRECAUTIONS

-
-
Wear protective clothing for sensitive skins
Do not ingest
Wear eye protection

#### FIRST AID

-
-
-
-
Flush with water*
*(Seek prompt medical advice)

#### STORAGE

Storage temperature	- n/a
Transport temperature	- n/a

Protect bags from prolonged exposure to direct sunlight.

#### PACKAGING / LABELLING

Packed:	- 20 / 30 kg plastic bags.
Label:	- including description, first aid and batch number