

VERSION: 03

ISSUED: AUG 2025

LARSEN

HIGHWAYS

TECHNICAL DATA SHEET

MBM 90

OVER 20MPa WITHIN 2 HOURS

OVER 50MPa AFTER 28 DAYS

10 – 100mm BED DEPTH IN ONE PASS

LOW SHRINKAGE

FROST RESISTANT

OPEN TO TRAFFIC AFTER 1-2 HOURS

COMPLIES WITH CD 226



Larsen Highways MBM 90 is a single part, all-purpose, rapid strength concrete, specifically formulated for the bedding of access covers and general repairs. It is manufactured from a controlled blend of specially selected aggregates, cements, and additives and only requires the addition of water to produce a high quality rapid setting mortar. MBM90 is ideal for bedding access covers and general repairs.



For further information, consult our Technical Department.

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LarsenBuildingProducts.com



TECHNICAL DATA SHEET

PRODUCT INFORMATION

FORM	Granular
COLOUR	Grey
MAX AGGREGATE	3mm
HAZARD INFORMATION	IRRITANT – Contains Cement. Consult Safety Datasheet before use
CLEANING	Clean tools, equipment, etc. using warm water. Mechanical means are necessary when the product has set.
PACKAGING	25 kg multi-wall paper sacks
STORAGE INSTRUCTIONS	Store unopened containers in a cool, dry location away from extremes of temperature
SHELF LIFE	6 months in unopened manufacturer's containers

APPLICATION INFORMATION

WATER DEMAND	3.0 - 3.5L per 25kg bag
APPLICATION TEMP.	+5 to +30°C
WORKING TIME	Approx. 10 min
SETTING TIME	15-20 min
TIME TO TRAFFIC (depending on site conditions)	Vehicle Traffic - after 1-2 hours (depending on site conditions)
BED THICKNESS	10 - 100mm
COVERAGE	25 kg will cover 1m ² @ 12.5 mm

PRODUCT INFORMATION

DENSITY	2200kg/m ³
SHRINKAGE	<0.1%
COMPRESSIVE STRENGTH	90min - >20MPa 2 hours - >25MPa* 28 day - >50MPa
TENSILE STRENGTH	28 day - >3.5MPa

DIRECTIONS FOR USE

PREPARATION

All substrates must be suitable to receive the bedding as per current good working practices. All substrates should be clean and thoroughly sound and free from oils, grease, dust, loose particles or any other contaminants which may interfere with adhesion. They should be pre-soaked but free from standing water. For improved bond strengths, use Larsen Streetscape PS.

MIXING

Add 12 - 14% water, i.e. 3.0 – 3.5L of water per 25kg bag to achieve the desired workability. Mix with a suitable mechanical mixer. Should more water be added to achieve a more pliable workability, the hardened properties of the product will be reduced. Highways MBM90 will begin to set in 10-15 minutes, do not try to remix or wet-up MBM90 which has 'gone off'.

APPLICATION

Larsen Highways MBM90 can be applied in a bed of 10 -100mm in a single pass and should be placed typically within 5 minutes of mixing to allow time for adjustment. Typically place a bed of 5-10mm thicker than required to allow for adjustments. The frame should be placed onto the mortar bed without voids. Tamp the frame in place to achieve the required level. Any exposed mortar should be smoothly finished by float. Backfilling and resurfacing can typically commence after 30-45 minutes. Freshly laid areas should be protected from vehicle traffic for a minimum of 90min dependent on temperature and site conditions.

RESTRICTIONS

Speed of set and strength development will be affected by site and substrate temperature. In warm conditions mixing with cold water will extend the setting time. In cold conditions mixing with warm water will reduce the setting time. Protect freshly placed material from freezing until set.