

HIGHWAYS MBM 30



OPEN TO
TRAFFIC IN **30** Min

Larsen Highways MBM 30 is a single component, extra rapid bedding mortar suitable for the installation and reinstatement of all types of access covers, as well as bedding kerbs and emergency 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 bedding layer which can be trafficked after just 30 min.

EXTRAORDINARY STRENGTH GAIN
EASY TO TROWEL AND FINISH
OPEN TO TRAFFIC AFTER 30min
>20MPa at 30min
60MPa AFTER 28 DAYS
10 – 75mm BED DEPTH IN ONE PASS
LOW SHRINKAGE
FROST RESISTANT
COMPLIES WITH DMRB HD27/04



TECHNICAL INFORMATION

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 and 20kg plastic tubs
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
WORKING TIME:	Up to 10 min
SETTING TIME:	15-20 min
TIME TO TRAFFIC:	Vehicle Traffic - after 30 min (depending on site conditions)
BED THICKNESS	10 - 75mm
COVERAGE:	25 kg will cover 1m ² @ 12.5 mm
PERFORMANCE INFORMATION	
DENSITY	2200kg/m ³
SHRINKAGE	<0.1%
COMPRESSIVE STRENGTH	30min >20MPa*
	45min >25 MPa
	1hour >30 MPa
	2hour >35 MPa
	28day >60 MPa
TENSILE STRENGTH	1hour - >2MPa
	28day - >5MPa

*Independent test report available on request

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 MBM 30 will begin to set in 10-15 minutes, do not try to remix or wet-up MBM 30 which has 'gone off'.

APPLICATION

Highways MBM 30 can be applied in a bed of 10 -75mm 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 20-30 minutes. Freshly laid areas should be protected from vehicle traffic for a minimum of 30min 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.

NOTE

Department of Transport Design Manual for Roads and Bridges Volume 7 Section 2 Part 4 HD 27/04 states - "3.11 Mortars for bedding iron work such as manhole cover frames during repairs may be trafficked when the strength is expected to be 20 N/mm². For rapid construction, this strength should be achieved within 2 hours."