HIGHWAYS MBM 60

OPEN TO TRAFFIC IN **60**Min

H A P A S

BBA APPROVAL INSPECTION TESTING CERTIFICATION
CERTIFICATE 17/H261

Product Sheet 1

Larsen Highways MBM 60 is a single component, rapid strength bedding mortar suitable for use in the installation, raising and reinstatement of ironwork, up to and including installation Group 4 of BS EN 124 where rapid trafficking is required. It is also ideal for 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 1 hour.

HAPAS APPROVED
STRONGER, FASTER EVEN IN THE COLD
EASY TO TROWEL AND FINISH
OPEN TO TRAFFIC AFTER 1 HOUR
>20MPa at 1 HOUR
60MPa AFTER 28 DAYS
10 – 75mm BED DEPTH IN ONE PASS
LOW SHRINKAGE
FROST RESISTANT
COMPLIES WITH DMRB HD27/15

TECHNICAL INFORMATION

PRODUCT INFORMATION	
FORM	Granular
COLOUR	Grey
MAX AGGREGATE	6mm
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 or 20kg plastic tub
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 15 min
SETTING TIME:	15-20 min
TIME TO TRAFFIC:	Vehicle Traffic - after 60 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		@20°C	@5°C
	1hour	>25 MPa*	>10 MPa
	2hour	>30 MPa	>25 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 60 will begin to set in 10-15 minutes, do not try to remix or wet-up MBM 60 which has 'gone off'.

APPLICATION
Highways MBM 60 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 30-45 minutes. Freshly laid areas should be protected from vehicle traffic for a minimum of 60min dependent on temperature and site conditions. Greater thicknesses can be achieved by adding up to 50% good quality washed 10-14mm aggregate. (1 bag aggregate per 2 bags MBM60)

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 27/15 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/mm^2. For rapid construction, this strength should be achieved within 2 hours."

For further information consult our Technical Department
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