

VERSION: 02

ISSUED: APR 2025

LARSEN

HIGHWAYS

TECHNICAL DATA SHEET

MBM 60

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



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.



For further information, consult our Technical Department.

Belfast 028 9077 4000 Birmingham 028 9053 5409 Dublin 01 8348255

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 bucket
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
SETTING TIME	20-25 mins
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%
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.

PRODUCT INFORMATION (CONTINUED)

COMPRESSIVE STRENGTH:

	@20°C	@5°C
1hour	>25 MPa*	>10 MPa
2hour	>30 MPa	>25 MPa
28day	>60 MPa	

The information and recommendations above are given in good faith based on our current knowledge and experience of the products when properly stored, handled, and applied in accordance with current best practice, national standards, and our recommendations. As we have no control over site conditions or methods of application, no liability can be derived from the contents of this information sheet, or from any written recommendations, or from any other advice offered. The user of the product is solely responsible for the product's suitability for the intended application and is recommended to test the suitability prior to use. We reserve the right to change the properties of our products without notice. All orders are sold subject to our current terms of sale and delivery. With the publication of this Technical Information Sheet all previous editions are no longer valid.

DIRECTIONS FOR USE CONT.

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/mm². For rapid construction, this strength should be achieved within 2 hours."