

VERSION: 02

ISSUED: MAY 2025

**LARSEN**

**HIGHWAYS**

**TECHNICAL DATA SHEET**

# MBM 534

**OPEN TO TRAFFIC IN 60 MINS**

**2hr COMPRESSIVE STRENGTH > 20MPa**

**3hr COMPRESSIVE STRENGTH > 30MPa**

**3hr TENSILE STRENGTH > 5MPa**

**10 – 50mm BED DEPTH IN ONE PASS**

**NON-SHRINK & FROST RESISTANT**



Larsen Highways MBM 534 is a two component, high performance bedding mortar providing all the benefits of a resin based mortar with the ease of use associated with cement based mortars. It is 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 and has exceptional performance in wet weather conditions.

**HAPAS APPROVED - COMPLIES WITH:**

- MCHW, volume 1, series 500, clause 507 chambers, 44
- MCHW, volume 1, series 500 clause 507 chambers, 24 (i), (iii) & (iv)



**For further information, consult our Technical Department.**

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**LarsenBuildingProducts.com**



## TECHNICAL DATA SHEET

### PRODUCT INFORMATION

FORM	Granular
COLOUR	Grey
HAZARD INFORMATION	IRRITANT - Contains Cement. Consult MSDS for full information before use
CLEANING	Clean tools, equipment, etc. using warm water. Mechanical means are necessary when the product has set
PACKAGING	17.7kg bag & 2.3L bottle
STORAGE INSTRUCTIONS	Store in unopened containers in cool, dry conditions, protected from extremes of temperature
SHELF LIFE	6 months in unopened manufacturer's containers

### APPLICATION INFORMATION

MIX RATIO	1 Bottle : 1 Bag
APPLICATION TEMPERATURE	+1°C to +30°C
WORKING TIME	15 mins
SETTING TIME	20-25 mins
TIME TO TRAFFIC (depending on site conditions)	Vehicle Traffic - from 1 hour
BED THICKNESS	10-50mm
COVERAGE	1 bag (17.7kg) will cover approx. 1m <sup>2</sup> @ 10mm

### PRODUCT INFORMATION

DENSITY	2200kg/m <sup>3</sup>
SHRINKAGE	<0.1%
TENSILE STRENGTH	3hours - 5.4MPa**
TENSILE ADHESION STRENGTH	>3MPa to concrete

## 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.

### MIXING

Add the contents of the liquid additive container to a suitable mixing vessel, holding back approx. 200ml and then slowly add the contents of the bag while mixing thoroughly with a slow speed drill and paddle. Only if required to achieve the desired workability, add the remaining liquid additive. Mix for a minimum of 2 minutes. Extra water or liquid additive should not be added as this will reduce the hardened properties of the product. Streetscape MBM 534 will begin to set in approx. 15 minutes, do not try to remix or wet-up MBM 534 which has 'gone off'.

### APPLICATION

MBM 534 can be applied in a bed of 10 - 50mm 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. All works should be carried out in line with advice laid out in the relevant sections of the Design Manual for Roads and Bridges.

### RESTRICTIONS

Speed of set and strength development will be affected by site and substrate temperature. Warm conditions will accelerate setting and cold conditions will slow setting. Protect freshly placed material from freezing until set. In adverse weather conditions, MBM534 should not be used if the temperature is below 3°C on a falling temperature or below 1°C on a rising thermometer.

### PRODUCT INFORMATION (CONTINUED)

#### COMPRESSIVE STRENGTH

\*Typical Results tested after storage@ 20°C

\*\*Report No. TAS 11/160

\*\*\*Report No. TAS 11/161

Compressive	Flexural
2 hours - 35 MPa	2 hours - 8 MPa
3 hours - 39.4 MPa**	3 hours - 9 MPa
24 hours - 50 MPa	24 hours - 10 MPa
28 days - 65 MPa	28 days - 12 MPa