

HIGHWAYS MBM 104

OPEN TO
TRAFFIC
IN **60** Min **HAPAS**



Product Sheet 2

Larsen Highways MBM 104 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

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2hr COMPRESSIVE STRENGTH > 20MPa

3hr COMPRESSIVE STRENGTH > 30MPa

3hr TENSILE STRENGTH > 5MPa

10 – 50mm BED DEPTH IN ONE PASS

NON-SHRINK

FROST RESISTANT



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:	20kg multi-wall paper sacks and 2.5L bottles										
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											
MIX RATIO:	20kg Bag + 2.3L liquid additive										
APPLICATION TEMP:	+1 to +30°C										
WORKING TIME:	15 min										
SETTING TIME:	20-25min										
TIME TO TRAFFIC:	Vehicle Traffic - from 1 hour (depending on site conditions)										
BED THICKNESS	10 - 50mm										
COVERAGE:	1 pack (20 kg + 2.3L) will cover approx. 1m ² @ 10mm										
PERFORMANCE INFORMATION											
DENSITY	2200kg/m ³										
SHRINKAGE:	<0.1%										
COMPRESSIVE STRENGTH *Typical Results tested after storage@ 20-C **Report No. TAS 11/160 ***Report No. TAS 11/161	<table border="1"> <thead> <tr> <th>Compressive</th> <th>Flexural</th> </tr> </thead> <tbody> <tr> <td>2 hours - 35 MPa</td> <td>2hours - 8 MPa</td> </tr> <tr> <td>3 hours - 39.4 MPa**</td> <td>3 hours - 9 MPa</td> </tr> <tr> <td>24 hours - 50 MPa</td> <td>24hrs - 10 MPa</td> </tr> <tr> <td>28 days - 65 MPa</td> <td>28 days - 12 MPa</td> </tr> </tbody> </table>	Compressive	Flexural	2 hours - 35 MPa	2hours - 8 MPa	3 hours - 39.4 MPa**	3 hours - 9 MPa	24 hours - 50 MPa	24hrs - 10 MPa	28 days - 65 MPa	28 days - 12 MPa
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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 20kg 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 104 will begin to set in approx 15 minutes, do not try to remix or wet-up MBM 104 which has 'gone off'.

APPLICATION

Streetscape MBM 104 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, MBM104 should not be used if the temperature is below 3°C on a falling temperature or below 1°C on a rising thermometer.