


HIGH PERFORMANCE ROAD MAINTENANCE  
FIRST TIME // ON TIME // EVERY TIME

 **LARSEN**

# HIGHWAYS







Our primary aim is to provide customers with the very best level of service that can be expected. Our goal is your complete satisfaction and to achieve this, our dedicated personnel will assist with your enquiry in a professional and timely manner.

Our highway maintenance range balances technical merit and user friendliness without compromising either. Quality, performance and development are all synonymous with Larsen Highway products, all developed with the professional user in mind.

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HIGHWAYS

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**36.7 MILLION  
VEHICLES REGISTERED  
FOR USE ON THE ROADS  
OF GREAT BRITAIN**

**LARSEN**

**HIGHWAYS**



**Never before has the need for reliable, first time permanent reinstatement methods been as critical. To meet this demand, we have further enhanced our comprehensive range of high performance road maintenance products.**

Larsen Building Products, as part of the Larsen group of companies, has been manufacturing quality products since establishment in 1975. Larsen has now grown to become a market-leading manufacturer of a comprehensive range of products for the construction and civil engineering industries. 2008 saw the next step in Larsen's growth with the completion of a purpose-built manufacturing facility in the port of Belfast. This industry-leading computer-controlled facility has a production capacity of over 2,000 bags of product per hour.

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**HAPAS, The Highway Authorities' Product Approval scheme was established to provide a nationally recognised approval for innovative products and systems used in highways and related areas. All HAPAS approvals involve laboratory and road tests, site inspection, performance trials and an evaluation of production.**

**Larsen Building Products have specifically formulated high performance products that embrace the HAPAS scheme delivering stand-alone product approvals offering greater flexibility to the contractor / specifier.**



**BBA/HAPAS APPROVED MBM104  
IRONWORK BEDDING MORTAR**

**CERTIFICATE: 17/H261**

Larsen Highways MBM104 is a two component high performance, fibre reinforced bedding mortar providing all the benefits of a resin based mortar with the ease of use associated with cement based mortar.



**BBA/HAPAS APPROVED MBM60  
IRONWORK BEDDING MORTAR**

**CERTIFICATE: 17/H261**

Larsen Highways MBM60 is a single component, rapid strength bedding mortar suitable for installation and reinstatement of all types of access covers, as well as bedding of kerbs and emergency repairs.



**BBA/HAPAS APPROVED PM04  
IRONWORK BEDDING MORTAR**

**CERTIFICATE: 17/H261**

Larsen PM04 is a two component non-slump polyester resin mortar. Larsen PM04 is suitable for rapidly bedding ironwork in heavily trafficked areas.

**Larsen Building Products portfolio of BBA/HAPAS approved highway maintenance materials:**

- A range of ironwork bedding mortars, cementitious & polyester.
- Backfill concrete.
- Thermoplastic overbanding.
- Permanent cold-lay asphalt concrete 6mm.
- Instant pothole repair.

**Larsen Building Products BBA/HAPAS approved ironwork bedding mortars and backfill concrete**

- Can be used individually or as a system.
- Suitable for all types of carriageway, no restrictions.
- Suitable for all types of ironwork up to and including Group 4 of BS EN 124.



**BBA/HAPAS APPROVED PCL06  
PERMANENT COLD LAY ASPHALT**

**CERTIFICATE: 17/H264**

Larsen Highways PCL06 BBA/HAPAS approved 6mm permanent cold lay macadam for footways, footpaths and cycle tracks is instantly trafficable in any weather conditions.



**BBA/HAPAS APPROVED OBT05  
OVERBANDING TAPE**

**CERTIFICATE: 17/H267**

Larsen Highways OBT05 is a high quality thermoplastic overbanding tape. It is a quick and efficient way to seal joints in asphalt surfaces, preventing water ingress and associated frost damage prolonging the life of the repair.



**BBA/HAPAS APPROVED MBC10  
IRONWORK BACKFILL CONCRETE**

**CERTIFICATE: 17/H261**

Larsen Highways MBC10 is a rapid strength, fibre reinforced concrete specifically formulated for the backfill of carriageway ironwork. It has exceptionally high, early compressive and flexural strengths.

# MANHOLE BEDDING MORTAR



Larsen Highways MBM30 is a single component bedding mortar formulated to achieve the required 20N/mm<sup>2</sup> in just 30 minutes. Suitable for the installation and reinstatement of all types of access covers, as well as bedding kerbs and emergency repairs.

Suitable for ironwork conforming to BS EN 124.

Complies with the Department of Transport Design Manual for Roads & Bridges HD27/15.



Test	Larsen MBM30	
Compressive strength	>20N/mm <sup>2</sup>	at 30 minutes
	>30N/mm <sup>2</sup>	at 1 hour
	>60N/mm <sup>2</sup>	at 28 days
Flexural strength	8N/mm <sup>2</sup>	at 28 days
Tensile strength	>5N/mm <sup>2</sup>	at 28 days
Shrinkage	<0.1%	
Frost resistant	Frost Resistant	
Traffic time	30 minutes depending on site conditions	
Working time	5 – 10 minutes	
Set time	10 – 20 minutes	
Bed depth	10 – 75mm in one pass	
Packaging	25kg bag / 25kg bucket	
Pallet quantity	56 bags / 42 buckets	
Shelf life	6 months in unopened packaging from date of manufacture	

*Depending on temperature, all tests were carried out at 20°C. Cold temperatures retard and warm temperatures accelerate.*



# MANHOLE BEDDING MORTAR



**HIGH PERFORMANCE ROAD MAINTENANCE**  
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Larsen Highways MBM60 is a single component, rapid strength bedding mortar suitable for installation and reinstatement of all types of access covers, as well as bedding of kerbs and emergency repairs.

Suitable for ironwork conforming to BS EN 124.

Complies with Department of Transport Design Manual for Roads and Bridges HD27/15.



Test	Larsen MBM60	
Compressive strength	>20N/mm <sup>2</sup>	within 1 hour
	>60N/mm <sup>2</sup>	at 28 days
Flexural strength	8N/mm <sup>2</sup>	at 28 days
Tensile strength	>5N/mm <sup>2</sup>	at 28 days
Shrinkage	<0.1%	
Frost resistant	Frost resistant	
Traffic time	Within 1 hour	
Working time	5-10 minutes	
Set time	20 minutes	
Bed depth	10-75mm in one pass	
Packaging	25kg bag / 25kg bucket	
Pallet quantity	56 bags / 42 buckets	
Shelf life	6 months in unopened bags from date of manufacture	

*Depending on temperature, all tests were carried out at 20°C. Cold temperatures retard and warm temperatures accelerate.*



# MANHOLE BEDDING MORTAR



Larsen Highways MBM90 is a single part, all-purpose, rapid strength concrete, specifically formulated for the bedding of access covers and general repairs.

Suitable for ironwork conforming to BS EN 124.

Complies with Department of Transport Design Manual for Roads and Bridges HD27/15.



Test	Larsen MBM90	
Compressive strength	>20N/mm <sup>2</sup>	after 2 hours
	>25N/mm <sup>2</sup>	after 1 day
	>50N/mm <sup>2</sup>	at 28 days
Tensile strength	>3.5N/mm <sup>2</sup>	at 28 days
Shrinkage	<0.1%	
Frost resistant	Frost resistant	
Traffic time	90 minutes	
Working time	5-10 minutes	
Set time	20 minutes	
Bed depth	10-75mm in one pass	
Packaging	25kg bag / 25kg bucket	
Pallet quantity	56 bags / 42 buckets	
Shelf life	6 months in unopened bags from date of manufacture	

*Depending on temperature, all tests were carried out at 20°C. Cold temperatures retard and warm temperatures accelerate.*





Larsen Highways MBM104 is a two component high performance, fibre reinforced bedding mortar providing all the benefits of a resin based mortar with the ease of use associated with cement based mortar.

Suitable for installation and reinstatement of all types of access covers.

No disposal of hazardous waste.

Exceptional performance in wet weather conditions.

Complies with Department of Transport Design Manual for Roads & Bridges HA104/09.

Complies with Department of Transport Design Manual for Roads & Bridges HD27/15.

Complies with NRA MCDRW Vol 1 Clause 507.1.



Test	Larsen MBM104	
Compressive strength	>30N/mm <sup>2</sup>	after 3 hours
	>60N/mm <sup>2</sup>	at 28 days
Tensile strength	>5N/mm <sup>2</sup>	after 3 hours
Shrinkage	<0.1%	at 28 days
Frost resistant	Frost resistant	
Traffic time	Within 1 hour	
Working time	15 minutes	
Set time	20-25 minutes	
Bed depth	10-50mm in one pass	
Packaging	20kg bag & 2.5L bottle 18kg bucket containing: 16kg powder & 2L liquid	
Pallet quantity	48 bags and bottles / 56 buckets	
Shelf life	6 months in unopened bags from date of manufacture	

*Depending on temperature, all tests were carried out at 20°C.  
Cold temperatures retard and warm temperatures accelerate.*



# POLYESTER MORTAR



Larsen PM04 is a two component non-slump polyester resin mortar. Larsen PM04 is suitable for bedding all types of ironwork in heavily trafficked areas. Also used for bedding and repairing kerbs, flagstones, copings and for non-structural repairs to concrete units.

Easy to use two pack fast-setting system.

Suitable for installation and reinstatement of all types of access covers.

Complies with Department of Transport Design Manual for Roads and Bridges HA104/09.

Complies with Department of Transport Design Manual for Roads & Bridges HD27/15.

Complies with NRA MCDRW Vol 1 Clause 507.1.



Test	Larsen PM04	
Compressive strength	>50N/mm <sup>2</sup>	at 3 hours
Tensile strength	>10N/mm <sup>2</sup>	at 3 hours
Flexural strength	>20N/mm <sup>2</sup>	at 3 hours
Frost resistant	Frost resistant	
Traffic time	Within 1 hour	
Working time	10 minutes @ 20°C	
Set time	20-25 minutes	
Bed depth	10-50mm in one pass	
Packaging	6.5kg bucket / 12.5kg bucket / 25kg bucket	
Pallet quantity	25kg buckets x 42no. / 12.5kg buckets x 56no. / 6.5kg buckets x 64no.	
Shelf life	12 months in unopened buckets from date of manufacture	

*Depending on temperature, all tests were carried out at 20°C. Cold temperatures retard and warm temperatures accelerate.*

# MANHOLE BACKFILL CONCRETE

**HIGH PERFORMANCE ROAD MAINTENANCE**  
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Larsen Highways MBC10 is a rapid strength, fibre reinforced concrete specifically formulated for the backfill of carriageway ironwork and haunching reinstatements, as well as post, sign, fence and barrier erection. It has exceptionally high, early compressive and flexural strengths.



Test	Larsen MBC10
Compressive strength	>20N/mm <sup>2</sup> after 90 minutes >60N/mm <sup>2</sup> at 28 days
Flexural strength	>6N/mm <sup>2</sup> at 28 days
Shrinkage	Shrinkage compensated - eliminates cracking
Frost resistant	Frost resistant
Traffic time	Within 1 hour
Working time	5-10 minutes
Set time	10-20 minutes
Bed depth	30-250mm in one pass
Packaging	25kg bag / 25kg bucket
Pallet quantity	56 bags / 42 buckets
Shelf life	6 months in unopened bags from date of manufacture

*Depending on temperature, all tests were carried out at 20°C.  
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Larsen Highways SFX30 is a rapid hardening professional grade signfix, specifically formulated to provide an instant hold when fixing in place signs, lighting columns, barriers, posts, poles, speed cameras, fences and street furniture.



Test	
Compressive strength	
Working time	
Set time	
Packaging	
Pallet quantity	
Shelf life	

Larsen SFX30	
Compressive strength	30N/mm <sup>2</sup> after 28 days
Working time	5-10 minutes
Set time	15 minutes
Packaging	25kg bags
Pallet quantity	56 bags
Shelf life	6 months in unopened bags from date of manufacture

Depending on temperature, all tests were carried out at 20°C. Cold temperatures retard and warm temperatures accelerate.

# RAPID REINSTATEMENT CONCRETE



**HIGH PERFORMANCE ROAD MAINTENANCE**  
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Larsen Highways RRC05 is a rapid-set surfacing concrete designed for making good blemishes and repairs to all concrete surfaces such as roads, paths and driveways. It can also be used for the installation of small ironwork, posts and access points for infrastructure and utilities.

RRC15 is a fast-set high early strength concrete for repairs large or small. Suitable for use in car parks, warehouses, farm buildings and bridge decks.



Test	Larsen RRC05		Larsen RRC15	
<b>Compressive strength</b>	>15N/mm <sup>2</sup> 60N/mm <sup>2</sup>	after 2 hours at 28 days	>30N/mm <sup>2</sup> 40N/mm <sup>2</sup> 60N/mm <sup>2</sup>	after 3 hours at 24 hours at 28 days
<b>Flexural strength</b>	4N/mm <sup>2</sup> 8N/mm <sup>2</sup>	at 7 days at 28 days	7N/mm <sup>2</sup> 9N/mm <sup>2</sup>	at 7 days at 28 days
<b>Shrinkage</b>	<0.1%		<0.1%	
<b>Frost resistant</b>	Frost resistant		Frost resistant	
<b>Working time</b>	5-10 minutes		15-20 minutes	
<b>Set time</b>	15 minutes		30 minutes	
<b>Bed depth</b>	10-100mm		25-100mm	
<b>Packaging</b>	25kg bags		25kg bags	
<b>Pallet quantity</b>	56 bags		56 bags	
<b>Shelf life</b>	6 months in unopened bags from date of manufacture		6 months in unopened bags from date of manufacture	

*Depending on temperature, all tests were carried out at 20°C.  
Cold temperatures retard and warm temperatures accelerate.*



# EPOXY MORTAR



Larsen Highways EM is a three part pack solvent-free epoxy resin mortar, perfectly suited for areas where exceptional strength and bond are required.

Larsen Highways EM is a high strength, fast and easy to apply epoxy mortar perfect for repairing damaged kerbs, steps and general concrete repair for areas of intense wear and tear.



Test	Larsen EM	
Compressive strength	70N/mm <sup>2</sup>	after 28 days
Flexural strength	25N/mm <sup>2</sup>	
Tensile Bond strength	>2N/mm <sup>2</sup>	
Bed depth	from 4mm-30mm	
Working time	10-15 minutes	approx at 20°C
Traffic time	24 hours - light foot traffic 48 hours - vehicular traffic approx at 20°C	
Pack sizes	10kg	Yield 5 litres
Colours	Light grey	
Shelf life	6 months in unopened buckets from date of manufacture	

*Depending on temperature, all tests were carried out at 20°C. Cold temperatures retard and warm temperatures accelerate.*

# PERMANENT COLD LAY ASPHALT

**HIGH PERFORMANCE ROAD MAINTENANCE**  
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Larsen Highways PCL06 BBA/HAPAS approved 6mm permanent cold lay macadam for footways, footpaths and cycle tracks is instantly trafficable in any weather conditions.

Advanced and modern binder technology delivers improved workability and storage life, making it easier to achieve good compaction and a durable surface finish.

## Advantages:

BBA/HAPAS Approved

Fast, effective & permanent reinstatement for footway, footpaths and cycle tracks

All weather use

Excellent storage life



Larsen PCL06	
Packaging	25kg bag / 25kg bucket
Pallet quantity	56 bags / 52 buckets
Shelf life	At least 6 months stored correctly in sealed containers

*Depending on temperature, all tests were carried out at 20°C.  
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# INSTANT POTHOLE REPAIR



Larsen Highways IPR06 is BBA/ HAPAS approved as an instant and permanent solution for roads, pavements, driveways, car park maintenance companies, school caretakers and homeowners. It is instantly trafficable in any weather conditions, hot, wet or freezing.

**Advantages:**

- BBA/HAPAS Approved
- One visit for an instant and permanent repair
- Open to traffic immediately
- All weather use
- PSV>60



Larsen IPR06	
Packaging	25kg bag / 25kg bucket
Pallet quantity	56 bags / 52 buckets
Shelf life	At least 6 months stored correctly in sealed containers

*Depending on temperature, all tests were carried out at 20°C. Cold temperatures retard and warm temperatures accelerate.*

BITUMEN  
EDGE  
SPRAY



HIGH PERFORMANCE ROAD MAINTENANCE  
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Larsen Highways BES10 is a bitumen spray that is applied to the vertical edge of the ironwork and surface of the backfill concrete prior to the application of asphalt. BES10 promotes the bond from the asphalt to the concrete and seals the edges preventing water ingress.



	<b>Larsen BES10</b>
<b>Packaging</b>	500ml aerosol can
<b>Cans per box</b>	12
<b>Coverage</b>	5.2 linear metres at 1mm thickness and a 40mm deep section
<b>Shelf life</b>	12 months from date of manufacture



# THERMOPLASTIC OVERBANDING TAPE



Larsen Highways OB05 is a high quality BBA/HAPAS Approved thermoplastic overbanding tape. It is a quick and efficient way to seal joints in asphalt surfaces, preventing water ingress and associated frost damage prolonging the life of the repair.

**Advantages:**

- BBA/HAPAS Approved
- Prevents water ingress
- Prolongs the life of the repair
- Traffic in 10 minutes
- Easy to apply
- No waste



	<b>Larsen OB05</b>
<b>Packaging</b>	5 metre rolls, 35mm wide x 3mm deep
<b>Rolls per box</b>	12
<b>Quantity per pallet</b>	60 boxes
<b>Shelf life</b>	12 months stored correctly in manufacturers packaging

# THERMOPLASTIC LINE MARKING

**HIGH PERFORMANCE ROAD MAINTENANCE**  
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**LARSEN**

Larsen Highways TLM05 is a thermoplastic line marking solution. It offers a convenient and cost effective method for the reinstatement of lines. Ideally suited for the utility sector contractor, TLM05 is easily applied with one operator and one gas burner.

Conforms to European standards and the specification for reinstatement of openings in highways.

- Non-toxic
- Environmentally friendly
- Lasts 10 times longer than paint

5m x 100mm roll  
10 rolls per box  
White, yellow, primrose or red.

## THERMOPLASTIC PRIMER

Larsen Highways TPR25 Thermoplastic Primer is used as a priming agent when applying Larsen Highways TLM05 Thermoplastic Line to concrete and old bitumen surfaces.

Packaging 750ml can,  
12 cans per box.





# HIGH FRICTION SURFACING



Larsen Highways HFS15 High Friction Surfacing patch pack is the complete, fast and cost effective solution for patching areas after maintenance. Perfect for repairs to junctions, car parks, roundabouts, cycle tracks and pedestrian areas in general. Can also be used as a high friction surface for manhole covers.

Available in red, green, grey, buff and black.



Test	Larsen HFS15
Traffic time	1-2 hours depending on temperature and humidity
Working time	10-20 minutes @ 20°C
Pack size	15.5kg buckets
Pallet quantity	48 buckets
Colours	Red, green, grey, buff and black
Shelf life	6 months in unopened bags from date of manufacture

*Depending on temperature, all tests were carried out at 20°C. Cold temperatures retard and warm temperatures accelerate.*

# A BETTER WAY TO LOOK AFTER YOUR HIGHWAY



**BBA / HAPAS  
APPROVED  
HIGHWAY  
MAINTENANCE  
PRODUCTS**

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