ISSUED: APR 2025



TECHNICAL DATA SHEET

RRC15

EN1504-3 CLASS R4

HIGH WEAR RESISTANCE

TRAFFIC IN 3 HOURS

SELF PRIMING

SHRINKAGE COMPENSATED

SLIP/SKID RESISTANT

FREEZE/THAW RESISTANT

DE-ICING SALT RESISTANT

Larsen Highways RRC15 is a fast set high early strength concrete for reinstatements large or small. It has been independently tested to EN1504-3 Class R4. Designed for use in car parks, warehouses, ramps and slipways, farm buildings and loading bays, and other concrete hardstandings and concrete roads. It is suitable for patch or full-depth repairs with quick reopening to traffic.















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PRODUCT INFORMATION

| FORM | Granular |
|----------------------|---|
| COLOUR | Grey |
| MAX AGGREGATE | 6mm |
| HAZARD INFORMATION | IRRITANT - Contains Cement. Consult Safety Data Sheet before use |
| CLEANING | Clean tools, equipment, etc. using warm water. Mechanical means are necessary when the product has set. |
| PACKAGING | 25 kg multi-ply paper bag |
| STORAGE INSTRUCTIONS | Store unopened containers in a cool, dry, dry location away from extremes of temperature. |
| SHELF LIFE | 6 months in unopened manufacturer's containers |

APPLICATION INFORMATION

| WATER DEMAND | 25kg Bag + 2.0-2.5L water |
|------------------|---|
| APPLICATION TEMP | : +3 to +30°C |
| BED THICKNESS: | 25-100mm (thicker repairs possible in localized areas or when bulked out with suitable 10mm aggregate) |
| WORKING TIME: | 15-20min |
| SETTING TIME: | 30 min |
| TRAFFIC TIME: | 3 hours typically |
| COVERAGE: | 25 kg will produce approx. 12L of mortar When bulked out 2 x 25kg RRC15 + 1X25kg aggregate produces 30L of mortar |

PERFORMANCE INFORMATION

| DENSITY | 2200/kgm³ |
|------------------------|--|
| COMPRESSIVE STRENGTH | 3hr - >20MPa 28 day - >60MPa |
| FLEXURAL STRENGTH | 7 day - 7MPa 28 day - 9MPa |
| ADHESION STRENGTH | 3.3MPa (28 day) 3MPa (After 50 Freeze/thaw cycles with de-icing salts) |
| CARBONATION RESISTANCE | 4.7mm (reference concrete = 9.6mm) |
| MODULUS OF ELASTICITY | 34.1GPa |
| SLIP/SKID RESISTANCE | Class III Wet - SRV 60 Dry - SRV 74 |

DIRECTIONS FOR USE

PREPARATION

All concrete substrates should be at least 25MPa and have all deteriorated material saw cut out and mechanically removed to a minimum depth of 25mm. Preparation should be carried out by suitable mechanical means but in such a way as to prevent microcracking in the substrate. The prepared surface should have a surface tensile strength in excess of 1MPa. 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. Due to the speed of set it is recommended to work in areas of less than 2m²

MIXING

Add 2.0-2.5L of water per 25kg bag to achieve desired workability. Mix thoroughly by suitable mechanical mixer. Should more water be added, the hardened properties of the product will be reduced. Highways RRC15 will begin to set in 15 minutes, do not try to remix or wet-up RRC15 which has 'gone off'.

For depths greater than 100mm, RRC15 may be bulked out with 10mm crushed granite (or similar non-reactive) aggregate. Mix at a ratio of 2 x 25kg RRC15 to 1x25 kg of aggregate. Ensure thoroughly mixed.

APPLICATION

Highways RRC15 should be worked into the pre-dampened substrate with a stiff brush immediately prior to filling the area. Then immediately trowel RRC15 working the material into the sides and base first before screeding level and float or brush finishing as required.

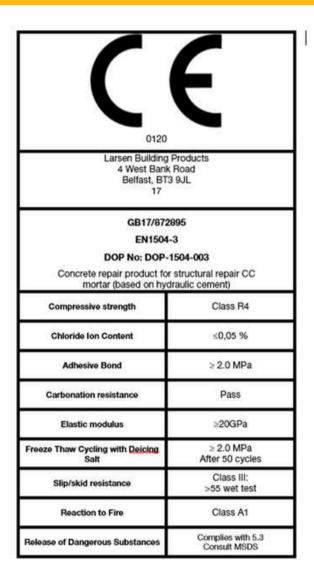
The hardened surface of RRC15 may require mechanical preparation when subsequent products, e.g. tile adhesives, levelling compounds or coatings are to be applied.

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.



TECHNICAL DATA SHEET

DIRECTIONS FOR USE CONT.



QUALITY

This product is manufactured in a plant controlled under an integrated management system third party certified to BS EN ISO 9001 and BS EN ISO 14001 and a third party certified FPC to EN1504.

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, RRC15 should not be used if the temperature is below 3°C on a falling temperature or below 1°C on a rising thermometer. Protect patch from inclement weather, freezing etc until sufficiently strong to resist damage. In hot or windy conditions, cure with an appropriate curing membrane, polythene or wet hessian.