

## CONCRETE REPAIR WORK

### FIBRE-REINFORCED SHRINKAGE-COMPENSATING REPAIR MORTAR



### PRODUCT FEATURES

- ▶ Application thickness: 5-70 mm per coat
- ▶ French Standard NF 030 "Repair products"
- ▶ Excellent resistance to sea water and sulphated water
- ▶ Can be painted over after 24 hours

### CONSUMPTION

- ▶ 2 kg/m<sup>2</sup> per mm thickness

### REFERENCE DOCUMENTS

- ▶ Approved «Repair Product» in accordance with Standard NF030
- ▶ CE Performance Statement
- ▶ CEBTP test report "liquid permeability" (ref: P18-862)

### PACKAGING

- ▶ 25 kg long storage bag

### STORAGE

- ▶ 12 months from date of manufacture if stored in unopened original packing in dry conditions

### WARRANTY

- ▶ Manufacturer's liability

**TECHNICAL ASSISTANCE:** ParexGroup S.A. will, on request, provide information and assistance to companies in relation to the specific use of a product. Such assistance shall not be assimilated with structural design and conception, nor the compliance of substrates, nor as a control of usage rules in force.

#### TECHNICAL DATA SHEET ISSUED - September 2017

The information provided in this document results from our knowledge of the products and our experience. Prior to application, customers and users are requested to check that they are in possession of the latest version of this document. Please check for updates at [www.parexlanko.com](http://www.parexlanko.com)

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# PAREXLANKO

# 735 LANKOREP RAPIDE



### DESCRIPTION

- Shrinkage-compensating mortar composed of sand, special cement, fibres and admixtures. The low porosity of **735 LANKOREP RAPIDE** significantly delays the progression of carbonation.

### USES

- Repair of concrete surfaces: spalling, honeycombing, stair nosing, prefabricated elements.
- Concrete restructuring: pillars, slabs, posts, dam aprons and spillways, structures in tidal zones.
- Reinforcement of weakened structures e.g. balconies, overhangs, cornices.
- Treatment of chamfers and seams prior to waterproofing.
- Treatment of passive cracks.

### SPECIFICATIONS

- Active ingredients including hydraulic binders and synthetic fibres. No metal particles.
- Grey ready-to-mix powder
- Particle size: 0-2 mm
- Hardened product density: 2
- Abrams cone slump: 2 cm
- Mortar pH: 12.5

### PERFORMANCE CHARACTERISTICS

- Pot life: 10 min - 15 min approx. at + 20°C
- Compliant with EN 1504-3 Class R4
- Setting time (1)

Temperature	+ 5°C	+ 20°C
Initial setting	3 h	40 min
Final setting	3 h 30	60 min

- Mechanical strength (2) (MPa)

Period	1 day	2 days	7 days	28 days
Flexion	4	5	8	9
Compression	20	25	40	55

(1) Average laboratory values provided as a general guide. (2) Tests carried out in compliance with Standard EN 12190. Average laboratory values provided as a general guide.

### PRECAUTIONS

- Temperature range for use: + 5°C to + 35°C.
- Do not apply to a frozen or thawing substrate.
- Apply only to clean, sound, resistant substrates, free of loose material.
- Active cracks should be treated separately following a survey by the project manager.
- Soak the substrate prior to application.
- After finishing, protect the mortar from drying out by applying **742 LANKOCURING**, taking care to moisten but not soak the surface.
- For applications when the temperature is above + 20°C, store the bags of mortar in cool shaded conditions and use cold water. Do not apply in full sunlight or in windy conditions.
- Refer to the Safety Data Sheet.

### INSTRUCTIONS

#### ■ SUBSTRATE PREPARATION

- Ensure that the substrate is free of any traces of plant-based or mineral pollution, e.g. grease, oil, laitance, etc...
- Remove loose and damaged concrete by means of a suitable tool in order to obtain a clean, rough surface.
- Clear out concrete around corroded rebars in order to create space for inserting the product behind and around them. The boundaries of the surface to be repaired must be clearly defined.
- Brush, scrape or sandblast corroded rebars in order to remove non-adherent rust.
- Dust off all surfaces to be repaired.
- Soak the substrate prior to application (substrate must be damp but not seeping with water).

#### Rebar passivation

- As required, by local application of:
  - a slurry of **735 LANKOREP RAPIDE** mixed with pure **751 LANKO LATEX** resin,
  - a passivating paint **760 LANKOPASSIV**
  - or, overall treatment by spray application of a corrosion inhibitor **761 LANKOSTEEL**.

#### ■ MORTAR PREPARATION

- The mortar is made up by mixing **735 LANKOREP RAPIDE** with clean water.
- Mix by hand with a trowel and trough or by machine (cement mixer or electric mixer).
- Mix for at least 3 minutes until a homogenous mixture has been obtained.
- No water must be added during application.

#### ■ MORTAR APPLICATION

- Apply a first coat of **735 LANKOREP RAPIDE** with a trowel, pressing firmly to ensure effective bonding then build up the thickness to a maximum of 70 mm in one single operation.

#### • Dosage / Yield

Quantity	1 x 25 kg bag
Water	3.5 litres
Final volume	13 litres