



PRODUCT FEATURES

- ▶ Application thickness: 5-70 mm per coat
- ▶ Compliance report with potable water (CLP)
- ▶ Compliant with Standard EN 1504-3

CONSUMPTION

- ▶ 2 kg/m²/mm thickness

REFERENCE DOCUMENTS

- ▶ CE Performance Statement
- ▶ SCETAUROUTE test report: P18-424 - XPP18-420
- ▶ ASTM Standards C-642, C-672, C-682-R
- ▶ CEBTP test report P18-862
- ▶ LMDC Toulouse test report: AFDC-AFREM
- ▶ CSTB test report DSSF/DEE FEC/BDP-523
- ▶ Compliance report with potable water (12 CLP NY 027 and 12 CLP NY 028)

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

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PAREXLANKO

731 LANKOREP STRUCTURE



DESCRIPTION

Shrinkage-compensating mortar composed of sand, special cement, fibres and admixtures. The low porosity of **731 LANKOREP STRUCTURE** significantly delays the progression of carbonation.

USES

- Repair of concrete surfaces: spalling, honeycombing, stair nosing.
- Concrete restructuring: pillars, slabs, posts, dam aprons and spillways, etc...
- 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: 30 min approx. at +20°C
- Compliant with EN 1504-3 Class R4
- Setting time (1)

Temperature	+5°C	+20°C	+30°C
Initial setting	7 h	2 h	1 h
Final setting	8 h 30	3 h	1 h 30

Mechanical strength (2) (MPa)

Period	1 day	2 days	7 days	28 days
Flexural	5	7	10	9
Compressive	30	40	45	65

(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.
- 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.
- 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.
- After finishing, protect the mortar from drying out by applying **742 LANKOCURING**, taking care to moisten but not soak the surface.
- 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 **731 LANKOREP STRUCTURE** 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 **731 LANKOREP STRUCTURE** with clean water.
- Mix by hand with a trowel and trough or by machine (cement mixer or electric mixer).
- Mix for at least 5 minutes until a homogenous mixture has been obtained.
- No water must be added during application

MORTAR APPLICATION

- Apply a first coat of **731 LANKOREP STRUCTURE** with a trowel, pressing firmly to ensure effective bonding, building up to a maximum thickness of 70 mm in one single operation.
- **Dosage / Yield:** Manual application

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