

# FIBRE-REINFORCED, NON SHRINKING MORTAR (THICKNESS 5-50mm)

# 731

## REPAIR MORTAR

# LANKO

### DESCRIPTION

Lanko 731 REPAIR MORTAR is a ready-to-use mortar composed of sand, special cement, fibres and admixtures.

### USES

- Repair of concrete surfaces: spalling, honeycombing, stair nosing, etc.
- Concrete restructuring: pillars, slabs, posts, dam aprons and spillways, etc.
- Reinforcement of weakened structures: balconies, overhangs, cornices.
- Treatment of chamfers and seams prior to waterproofing.

### CHARACTERISTICS

- Application thickness: 5 to 50mm
- Thixotropic.
- Strong bonding.
- High compactness. Closed porosity delays the progression of carbonation.
- High initial and final mechanical strength.
- Excellent resistance to sea water and sulphated waters.
- Contact possible with drinking water.

### SPECIFICATIONS

- Grey ready-to-wet powder.
- Active ingredients including hydraulic binders and synthetic fibres. Chloride and metal particle free.
- 731 REPAIR MORTAR protects steel rebars from corrosion.
- Portland cement concrete colour.
- Particle size : 0 - 2 mm
- Apparent powder density : 1.36
- 1/2 Abrams slump cone : 1 - 5 cm measurements
- pH : 12.5

Specifications are subject to change without notification. Results shown are typical but reflect test procedures used. Actual field performance will depend on installation methods and site conditions.

#### Setting time\*

Temperature		5°C	20°C	35°C
Plastic consistency	Initial setting	7 hours	2 hours	1 hour
	Final setting	8 1/2 hours	3 hours	1 1/2 hours

\*average laboratory values provided as a general guide.

#### Tensile bending strength\*

Period	2 days	7 days	28 days
MPa	7	10	12

\* Tests carried out on 4 x 4 x 16 samples, kept at 20°C and 90% humidity.

Average laboratory values provided as a general guide

#### Compressive strength\*

Period	2 days	7 days	28 days
MPa	35	45	65

\* Tests carried out on 4 x 4 x 16 samples, kept at 20°C and 90% humidity.

Average laboratory values provided as a general guide

#### Bonding strength at 28 days

Tensile bonding on rough concrete in accordance with standards XP P 18-858 and XP P 18-859 with or without thermal cycles	Resistance to repeated impact in accordance with standard P18 860
> 3 MPa	50 impacts without spalling

## INSTRUCTIONS

### Substrate preparation

- Remove loose and damaged concrete and laitance using a point tools, chisel, or planing 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.
- The substrate must be free of all traces of grease and oil.
- 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.
- If rebars are to be covered with less than 10mm of mortar, they should be passivated using either
  - a slurry mix of 731 REPAIR MORTAR and 751 LANKOLATEX, or
  - 760 PASSIVANT ACIER

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## Product preparation

- The mortar is made by mixing 731 REPAIR MORTAR with water.
- Machine or hand-mix for 3 minutes minimum until evenly distributed.
- Workable life after mixing: approximately 45 minutes at 20°C.
- No water must be added during application.

## Application

- Apply a first batch of 731 REPAIR MORTAR with a stainless steel trowel, pressing firmly to ensure bonding.
- Apply additional mortar to obtain the desired overall thickness.
- Trowel or float the repaired surface for a smooth finish.
- For large surfaces, the mortar may be applied by machine spray (wet or dry process).

## Dosage / Yield

Powder Quantity	Water	Workable mortar
25kg	3.5 - 4 Litres	13 - 13.5 Litres

## COVERAGE

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

## PACKAGING

25kg bag

## STORAGE

12 months from date of manufacture if stored in unopened original packing in dry, frost-free conditions.

## 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.
- Cracks should be treated separately.
- Soak the substrate before application.
- After finishing, protect the mortar from drying out by applying 742 PRODUIT DE CURE SP or by dampening without soaking.
- Refer to the safety data sheet.

"The information provided in this document results from our knowledge of the products and our experience. On-site results may vary, in particular according to the product application methods adopted. Where application methods are not covered by this document are used, customers must request specific additional information and/or carry out a representative test before using the products. The above-mentioned information in no way constitutes a warranty relative to the use of the products. Our general terms and conditions of sale shall prevail, in any event, on the information provided in this document. Prior to application, customers and users are requested to check that they have the latest version of this document."

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