

712 LANKOROAD RAPIDEX



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PRODUCT FEATURES

- ▶ Fast-hardening
- ▶ High mechanical strength
- ▶ Approved for use by Orange S.A.

WATER DOSAGE

- ▶ Mortar: 3.3 litres per 25 kg bag
- ▶ Micro-concrete: 4.3 to 5.3 litres per 25 kg bag

REFERENCE DOCUMENT

- ▶ Orange S.A. certification

DESCRIPTION

- Ready-to-mix mortar composed of sand, special cement, fibres and admixtures.

USES

- Bedding and sealing of sight holes, manhole covers, trapdoor frames, valve boxes, telecom hatches, street furniture, signposts.
- Caulking of bridge struts.
- Repairs to deck roadways prior to hot-applied waterproofing.

SPECIFICATIONS

- **Active ingredients:** chloride-free hydraulic binders with no metal particles.
- **Grey ready-to-wet powder**
- **Particle size:** 0-4 mm
- **Pot life:** 15 min at + 20°C
- **pH:** 12
- **Paste density:** 2.1

PERFORMANCE CHARACTERISTICS

Setting time (1)

Temperature	+ 5°C	+ 20°C	+ 30°C
Initial setting	2 h	25 min	15 min
Final setting	3 h	30 min	20 min

Mechanical strength (MPa) (2)

Period	2 h	5 h	1 day	7 days	28 days
Flexural	5	5.5	6	6.5	7.5
Compressive	20	35	40	45	50

Return to service (1) as determined by SETRA

(French highway technical studies dept.)

Temperature	+ 5°C	+ 20°C	+ 30°C
T4 T5 (low traffic)	5 h	1 h 30	2 h
T3+ T3- (average traffic)	8 h	2 h 30	2 h
T0 T1 T2 (high traffic)	not recommended	12 h	12 h

INSTRUCTIONS

■ SUBSTRATE PREPARATION

- Apply only to clean, sound resistant substrates, free of loose material.
- Soak substrate with water prior to application.
- Remove all residual water.

■ MORTAR PREPARATION

- The mortar is made up by mixing **712 LANKOROAD RAPIDEX** with clean water.
- Mix in a concrete mixer, by hand with trough & trowel or with a slow speed mixer (300-500 rpm).
- **Owing to the product's reactivity, if a cement mixer is used, be sure to rinse the drum regularly to prevent the phenomenon of nucleation.**
- Mixing time: 3 min approx. until a homogenous consistency is obtained.

■ MICRO-CONCRETE PREPARATION

- For thicknesses over 30 mm, **712 LANKOROAD RAPIDEX** should be used as a micro-concrete.
- Micro-concrete is made up by adding 10-20 litres of clean, damp 4/10 aggregate for each 25 kg bag of **712 LANKOROAD RAPIDEX**.

■ SEALING A MANHOLE INSPECTION COVER

- Clear out using sharp vertical cuts.
- Clear down to the top of the access shaft or to a solid rim (removing old bed face).
- Remove any remaining dirt and loose particles.
- Remove all dust.
- Dampen the substrate thoroughly.
- Remove residual water.
- Insert formwork or casing.
- Lay bed face, position frame.
- Block by filling ring with **712 LANKOROAD RAPIDEX**. Press down firmly.
- Level off **712 LANKOROAD RAPIDEX** at road level.
- Smooth the grain of the bearing surface and finish with a float.
- It is possible to leave a space of approximately 3 cm and finish with **719 LANKOROAD BITUME** once the mortar has hardened.

(1) Average laboratory values provided as a general guide.

(2) Tests carried out on 4 x 4 x16 samples, kept at 20°C and 90% humidity. Average laboratory values provided as a general guide.

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PACKAGING

- ▶ 25 kg bag

STORAGE

- ▶ 6 months

from date of manufacture if stored in unopened original packing in dry conditions

WARRANTY

- ▶ Manufacturer's liability

■ REPAIRS TO CONCRETE FLOORS (NON-INDUSTRIAL)

- A preliminary study must be carried out on cracked substrates.
- Mark the boundaries of the area to be repaired, preferably by sawing.
- Remove damaged material to leave a thickness of 2 cm with clean ridges and a rough surface. Loose particles must be raked out and all traces of grease and oil removed.
- Dust and rinse thoroughly.
- Fill the cleared area with water and soak for several hours.
- Remove all residual water.
- Make up a micro-concrete with **712 LANKOROAD RAPIDEX**.
- Apply the micro-concrete and finish off with a float.
- The mortar surface must be treated with a protective coating (**742 LANKOCURING**).

Dosage / Yield

Mortar

Quantity	1 x 25 kg bag
Water	3.3 litres
Final volume	13 litres

Micro-concrete

Quantity	1 x 25 kg bag	
0/4 Aggregates	10 kg	20 kg
Water	4.3 litres	5.3 litres
Final volume	20 litres	25 litres

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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PRECAUTIONS

- Temperature range for use: + 5°C to + 35°C.
- Do not apply to a frozen or thawing substrate.
- In hot temperatures **712 LANKOROAD RAPIDEX** should be mixed with cold water.
- Surfaces must be protected from air with **742 LANKOCURING** once setting starts.
- Do not mix with other hydraulic binders.
- Sand and admixtures must not be added.
- Aggregates used for making up micro-concrete must be frost-resistant (frost index below 10).
- Refer to the Safety Data Sheet.