

739 LANKOCRETE SPECIAL



1/2



PRODUCT FEATURES

- ▶ Large thickness applications up to 80 mm
- ▶ Abrasion resistant
- ▶ Compliant with Standard EN 1504-3

CONSUMPTION

- ▶ 2.2 kg/m² per mm thickness

REFERENCE DOCUMENTS

- ▶ CNR test report
- ▶ CE performance Statement

DESCRIPTION

- Ready-to-use mortar composed of special cement, silicious sand and fibres.

USES

- Rapid spray repairs to sewerage systems and hydraulic structures (e.g. oval foundation plates, penstock..).
- Coating of vaults and abutments of underground constructions (pipes, tunnels, oval drains, etc.).
- Rejoining of masonry structures.

SPECIFICATIONS

- Active ingredients including special cement and chloride-free admixtures with no metal particles
- Particle size: 0-2 mm
- Hardened product density: 2.1
- Mortar pH: 12.5
- Paste density: 2.2

PERFORMANCE CHARACTERISTICS

- Pot life: 40 minutes
- Compliant with EN 1504-3 Class R 3
- Setting time (1)

Temperature	+ 20°C
Initial setting	2 h 30
Final setting	3 h 30

Mechanical strength (2) (MPa)

Period	1 day	7 days	28 days
Flexural	4	7	9
Compressive	20	40	60

Abrasion resistance (3)

CNR index	at 28 days
738 LANKOCRETE SPECIAL	< 2
Granite	0.35 to 0.8
Glass	1
Common B25 concrete	3

Values provided for comparative purposes. The lower the CNR index, the greater the abrasion resistance.

- Bonding performance
- EN 1542 Initial bonding strength: > 1.5 MPa
- EN 13687-1 Bonding strength after freeze/thaw cycles: > 1.5 MPa
- EN 13687-2 Bonding strength after thunder/shower cycles: > 1.5 MPa
- EN 13687-4 Bonding strength after dry thermal cycle: > 1.5 MPa

INSTRUCTIONS

SUBSTRATE PREPARATION

- Substrates must be clean, sound and laitance-free. Substrates must also be well-soaked but not running with water.
- On masonry, prick up non-adherent and low mechanical strength elements. Wash and rinse the substrate in order to remove dust and ensure that it is well-dampened.
- In view of the fact that 739 LANKOCRETE SPECIAL is highly resistant, ensure in advance that the substrate is compliant (minimum surface cohesion: 1 MPa).

PRODUCT PREPARATION

- Mix the product with water using the spraying machine or a cement mixer.
- Mix for at least 3 minutes until evenly distributed.
- Do not add any water after mixing.

739 LANKOCRETE SPECIAL

2/2

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

■ APPLICATION

- Before spraying, lubricate the tubes with a Portland cement slurry.
- Apply an initial dash bond coat of **739 LANKOCRETE SPECIAL**.
- **739 LANKOCRETE SPECIAL** is then applied in one of the following ways:
 - by trowel, pressing firmly onto the substrate
 - by wet spray application, 10-30 mm coats up to a maximum thickness of 80 mm. On thicknesses above 30 mm affix a galvanized metal reinforcement to the substrate (minimum covering 20 mm).
 - similarly, on floor thicknesses above 50 mm, use an appropriate galvanized metal reinforcement system.

■ FINISHING OPTIONS

- The surface must be either smoothed, floated or brushed at each application stage.
- Protect from drying out by spraying water mist (without soaking) or **742 LANKOCURING** or by applying polyethylene film to the fresh mortar.
- Return to service: 24 hours after final application

Micro-concrete

- For large thicknesses applied to waterway bases, make up a micro-concrete using **739 LANKOCRETE SPECIAL**.
- On smooth concrete, first apply a dash bond coat of **739 LANKOCRETE SPECIAL** made up using a solution of 90% water and 10% **751 LANKO LATEX**.
- Level off to 10 cm with a straight-edge.
- After 4-8 hours approx., redampen the surface and then apply a 10-30 mm finishing coat of pure mortar to the entire surface.

Shell system

- When used for repairs to a «cunette», or curved drainage channel, **739 LANKOCRETE SPECIAL** can be coated with a chemical-resistant resin such as **531 BREPOXY**. This method is highly recommended with low gradients so as to significantly improve the flow of effluents.

- **Dosage / Yield:** pure mortar

Powder quantity	1 x 25 kg bag
Water	2.7 litres
Final volume	13 litres

- **Dosage / Yield:** micro-concrete

Powder quantity	1 x 25 kg bag
3/8 ballast	15 litres
Water	3.3 litres
Final volume	24 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

PAREXGROUP S.A. 19 place de la Résistance - CS 50053
92445 Issy-les-Moulineaux Cedex - Tél. (33) 01 41 17 20 00
Technical information : 0 826 08 68 78 (0,15 €/min + phone call price)

PAREXLANKO

PRECAUTIONS

- Temperature range for use: + 5°C to + 35°C.
- Substrates must be well-soaked but not running with water.
- Do not apply to a frozen or thawing substrate.
- Protect from drying out by misting (not soaking) or by applying **742 LANKOCURING** or by applying polyethylene film to the fresh mortar.
- For large-scale surfaces, apply by delimited sections.
- Do not mix with other hydraulic binders.
- No admixtures whatsoever may be used.
- On smooth concrete, first apply a dash bond coat of **739 LANKOCRETE SPECIAL** made up using a solution of 90% water and 10% **751 LANKO LATEX**.
- Refer to the Safety Data Sheet..