

738 LANKOCRETE ABRASION



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PRODUCT FEATURES

- ▶ Reinforcement of sanitation systems
- ▶ Repairs to dam spillways
- ▶ High abrasion resistance

CONSUMPTION

- ▶ 2.3 kg/m² per mm thickness

REFERENCE DOCUMENTS

- ▶ CNR test report
- ▶ CE performance Statement

DESCRIPTION

- Ready-to-use mortar composed of special cement, high-performance admixtures and fibres, designed for use in the protection of structures located in aggressive environments.

USES

- Repairs to base plates and aprons of oval drain gutters subject to abrasion and chemical corrosion.
- Repairs to sight holes.
- Protection of immersed screed and surface coatings requiring high wear resistance, e.g. pumping stations, sewage treatment stations...
- Dam spillways
- Pressure pipelines (penstock).

SPECIFICATIONS

- Active ingredients including special cement and chloride-free admixtures with no metal particles.
- Colour: grey
- Particle size: 0-3 mm
- Hardened product density: 2.3
- Mortar pH: 12

PERFORMANCE CHARACTERISTICS

- Pot life: 50 min approx. at + 20°C
- Compliant with EN 1504-3 Class R3
- Setting time (1)

Temperature	+ 20°C
Initial setting	4 hrs
Final setting	5 hrs

- Mechanical strength (2) (MPa)

Period	1 day	7 days	28 days
Flexural	5	9	11
Compressive	25	60	75

- Abrasion resistance (3)

CNR index	at 28 days
738 LANKOCRETE ABRASION	< 1
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

- 738 LANKOCRETE ABRASION may only be applied to substrates with a minimum surface cohesion of 1 MPa.
- 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 738 LANKOCRETE ABRASION is a highly resistant product, measures must be taken in advance to ensure that the substrate is compliant.

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.

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PACKAGING

- ▶ 25 kg long-storage bag conservation

STORAGE

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

WARRANTY

- ▶ Manufacturer's liability

■ MORTAR APPLICATION

- Apply, without interruption, a series of successive 10-30 mm layers up to the desired thickness (100 mm max.).
- Use on structures subject to abrasion or that require high resistance to chemical aggression, in particular confined or permanently immersed environments.
- **738 LANKOCRETE ABRASION** is applied using the wet spray method via a flexible Ø 50-35 screw pump (P11 or similar) or piston pump (P13 or similar). Standard nozzle diameter: 14-16 mm.
- Lubricate the tubes with a Portland cement slurry.
- For outdoor applications, thoroughly soak the substrate and then remove any residual water.
- Return to service: 24 hours, depending on ambient conditions.
- For large surface areas, comply with instructions for contraction joints.
- **738 LANKOCRETE ABRASION** can be smoothed, floated or left as sprayed.
- Protect from drying out by spraying water mist or **742 LANKOCURING** or by applying polyethylene film to the fresh mortar.
- For thicknesses of more than 30 mm apply in advance a galvanized metallic reinforcement.
- **Dosage / Yield:** Plastic consistency

Quantity	1 x 25 kg bag
Water	2.7 litres
Final volume	12 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.
- 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 surface areas, apply in limited stages.
- Do not mix with other hydraulic binders.
- No admixtures whatsoever may be used.
- On smooth concrete apply a rough-cast primer coat made up of **738 LANKOCRETE ABRASION** mixed with a 10% diluted solution of **751 LANKO LATEX**.
- Refer to the Safety Data Sheet.