

221 LANKO IMPER



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PRODUCT FEATURES

- ▶ For private swimming pools and basins
- ▶ Direct application on masonry, even if underground
- ▶ Ideal for creating watertight foundations

WATER DOSAGE

- ▶ 3.8 per 25 kg bag

CONSUMPTION

- ▶ 2 kg/m² per mm thickness, i.e. 20 kg for 10 mm/m² (higher consumption rates may occur on irregular substrates)

DESCRIPTION

- Ready to mix water-resistant hydraulic mortar composed of special cement, mineral filler and admixtures.

USES

- **221 LANKO IMPER** is particularly suitable for interior and exterior waterproofing of buried, immersed or open-air masonry and concrete, such as:
 - Private swimming pools and basins
 - Cellar walls
 - Supporting walls
 - Castle moats
 - Watertight foundations
 - Hard stone joints

PERMISSIBLE SUBSTRATES

- Concrete slabs (private swimming pools and basins)
- Shuttered concrete
- Solid or hollow concrete blocks made with common aggregates
- Shuttering blocks
- Hard stone masonry

SUITABLE COVERING MATERIALS

- Synthetic finish coats
- Non-saponifiable paints
- Tiles
- Enamel, pâte de verre
- Bituminous coatings
- Levelling render

SPECIFICATIONS

- Grey powder
- Particle size: 0-4 mm
- Hardened product density: 1.8
- Pot life: 45 min approx. at + 20°C
- Mortar pH: 12
- Product capillarity: $C \leq 0.5 \text{ kg/m}^2/\text{min}^{0.5}$
- Capillary break:
 - compliance with DTU 20.1 chapter 3.6.5.6
 - $M > 15$ and $C \leq 0.5 \text{ kg/m}^2/\text{min}^{0.5}$
- Setting time (1)

Temperature	+ 20°C
Initial setting	6 h 30
Final setting	7 h 30

Mechanical strength (MPa) (2)

Period	1 day	7 days	28 days
Flexural	2	3.5	4.5
Compressive	5	12	18

Bond strength (MPa) (1) for 10 mm thickness

Period	28 days
Concrete substrate	1 MPa

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PACKAGING

- ▶ 25 kg long storage bag

STORAGE

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

WARRANTY

- ▶ Manufacturer's liability

INSTRUCTIONS

■ SUBSTRATE PREPARATION

- The substrate must be clean, sound, dust-free and without any traces of oil, laitance, curing compound etc. Overplus and seams must be levelled off.
- Substrates must be soaked the day before application. Dampen the surface again just before application. The substrate must be damp but not seeping with water.
- On shuttered concrete walls, a dash bond coat made up with **221 LANKO IMPER** mixed with water containing a 10% dose of **751 LANKO LATEX** must be applied.
- This preparation should be sprayed to a thickness of between 3 and 5 mm, taking care to press down ridges so as to prevent overloading during finishing.
- Apply **221 LANKO IMPER** as soon as the dash bond coat has begun to stiffen.

■ SPECIFIC ISSUES (edges, wall - apron joints, wall - wall joints):

- Make rounded chamfers using **731 LANKOREP STRUCTURE** or **770 LANKOREP FIN RAPIDE**.
- Leave to dry prior to covering.
- Chamfers must be made prior to application of the product. Sections can be of variable size depending on the specific characteristics of the structure (steps, freeforms) and associated covering materials.

■ PRODUCT PREPARATION

- The mortar is made up by mixing **221 LANKO IMPER** with clean water.
- Mixing is carried out in a trough with a trowel, in a cement mixer or in the mixing tank of a spraying machine.
- Water dosage: 15%, i.e. approximately 3.8 litres per 25 kg bag.
- Mix continuously for 3 minutes until a homogenous paste is obtained.

■ APPLICATION

- The product is applied (1 or 2 coats) by hand with a trowel, or by using a spraying machine (wet method) or spraying pot (e.g. SABLON).
- Once applied, level off with a ruler and then finish with a float (the final appearance will depend on the covering material to be applied.)

Shuttered concrete walls

- After leaving the dash bond coat to dry for 3-4 hours, build up the final thickness, which must on no account exceed 10 mm.
- Float finish.

Concrete block walls (hollow or solid with horizontal and vertical reinforcements compliant with French ITBTP specification n° 350 pertaining to swimming pools & basins) and shuttering blocks

- Apply a 10-20 mm mortar coating directly to the substrate.
- Work on reduced surface areas so as to ensure that the float finish can be performed within the product's 45 minutes pot life, especially on substrates exposed to heat.

Swimming pool and basin bottoms

- Make up a firm mixture of the product in a cement mixer.
- Prepare a solution made up of 1 part **751 LANKO LATEX** and 2 parts clean water.
- Mix 1 volume of firm mortar with the diluted solution so as to obtain a creamy consistency
- Apply this slurry little by little in small doses (must be tacky to the touch).
- Apply a coat of firm mortar so as to be able to draw and dress the screed immediately after spreading.
- Application thickness: 10 mm min.-30 mm max.

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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PAREX LANKO

PRECAUTIONS

- Temperature range for use: + 5°C to + 35°C.
- Apply a curing agent or re-moisten the surface immediately after application.
- If applied by hand, do not alter the surface after application.
- For exterior use, do not apply in direct sunlight.
- Do not apply to a frozen or thawing substrate or if frost is expected within 24 hours following application.
- **221 LANKO IMPER** is not intended to withstand substrate cracking.
- The product may be left bare (unless treated with salt or bromium), permanently immersed (allow 7 days prior to filling with water or covered with tiles (using the following adhesives: **5024 PROLIDAL PLUS / 572 PROLIFLEX HP / 5025 COLLE & JOINT**).
- Before filling with water refer to the manufacturer's Technical Data Sheet for the finishing product.
- In all cases, the product must be left to dry for 7 days before being covered.
- This product is not suitable for basins in which water is treated with salt.
- Do not add any other hydraulic binder or admixture.
- Refer to the Safety Data Sheet.