



FLEX

DUAL-COMPONENT FLEXIBLE HYDRAULIC-MORTAR

APPROVED FOR CONTACT WITH POTABLE WATER

CHARACTERISTICS

- Technical appraisal approved for contact with potable water.
- Resistant to micro-cracking ≤ 2 mm
- Watertight
- Flexible
- Pressure and counter pressure resistant.

DESCRIPTION

LANKO 226 K11 FLEX is used for the protection and waterproofing of rendered concrete and masonry.

USES

Interior/exterior

- Potable water reservoirs.
- Tanks and cisterns.
- Shaft linings and lift shafts.
- Concrete cupolas and other structures.
- Base-mats and basements.

SPECIFICATIONS

- Appearance
 - Component A : grey or white powder combining special cements, filler and admixtures.
 - Component B : white milky liquid containing resins in aqueous dispersion
- Colour : Grey or White
- Paste density : 1.9
- Bonding on concrete : 1.8 MPa
- Pressure resistance : 2 MPa
- Counter-pressure resistance : 0.8 MPa
- Crack resistance : 2.3 mm non-reinforced
: 2.9 mm reinforced
- Crack resistance after 3 month immersion : 1.5 mm non-reinforced
: 2 mm reinforced
- Pot life at 20°C : 30 minutes
- Recoat time : 2-4 hours

Bond Strength by slant shear test : ASTM C882*

7 Days	:	1.2 MPa
28 Days	:	1.8 MPa

Tensile Strength : ASTM C190*

28 Days	:	0.5 MPa
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*Average laboratory values provided as a general guide



WORK INSTRUCTIONS

Surface preparation

- Without any traces of oil. All loose parts must be raked out.
- Fill honeycombing and bubbles.
- Where repairs are required LANKO 731 LANKOREP STRUCTURE should be used. Contact us for details of other Lanko products which may be recommended for specific work.
- The substrate must be damp, but not running with water, during application.

Product preparation

- Machine-mix only - low-speed (i.e. 300 - 500 rpm)
- Proceed as follows to obtain an evenly-distributed paste :
- Pour ¾ of the resin into a suitable container
- Add the powder gradually in order to obtain a plastic consistency
- Add the rest of the liquid and mix for 3 more minutes
- Leave to stand for several minutes.
- To obtain a more fluid consistency add water to a maximum quantity equivalent to 3% of the weight of the resin used.

Application

- LANKO 226 K11 FLEX is applied :
 - by hand : brush or float.
 - by machine : peristaltic pump
- Apply a 1st coat allowing a rough but reasonable quantity of 1-1.5 kg/m².
- The 2nd coat can be applied after a drying period of 2 - 4 hours (temperature dependent), allowing a quantity of 1-1.5 kg/m².
- Coats can be floated using a filling knife or stainless steel float.
- Mortar must be used within 1 hour of preparation (at 20°C).
- Reinforcing : for substrates showing evidence of micro-cracking or which are likely to be subject to dimensional changes (water towers, structures exposed to thermal shock), the 1st coat should be reinforced by applying LANKO ARMATURE RM FIBER MESH. The latter should be used for all specific reinforcement needs.
- Possible covering materials :
- LANKO 226 K11 FLEX may be left bare but do not expose to directly sunlight or covered with tiling. High-traffic areas should be protected against abrasion. Reservoirs and tanks can be filled after 7 days drying time.

PRECAUTIONS

- Temperature range for use : 5°C to 35°C.
- Minimum 2 coats.
- Take all necessary precautions to prevent over-fast drying.
- Where possible, carry out exterior applications in shady, cool conditions.
- Do not re-dampen between coats. Wipe off any condensation water.
- The mortar coating must not be exposed to frost within 12 hours of application.
- Do not use acid-based cleaning products.
- Gloves should be worn.
- Reservoirs must be rinsed thoroughly prior to filling.

COVERAGE

1-1.5 kg/m²

PACKAGING

- 4.5 kg Kit. (Flex + Bonding Agent in Container)
- 23 kg Kit. (Flex 18 kg Bag + Bonding Agent 5 L Gallon)

STORAGE

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



Grey



White

Shading of the colour samples may be somewhat different from the actual colours.



Disclaimer: The use of this product is beyond the manufacturer's control and liability is restricted to the replacement of material proven faulty. The manufacturer is not responsible for any loss or damage arising from incorrect useage. Specifications are subjected to changes without prior notice.

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