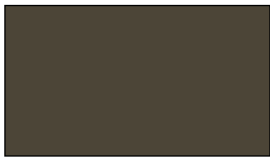


LANKO



CHARACTERISTICS

- **Direct application on masonry.**
- **Interior/exterior use.**
- **Impact and age resistant once hardened.**
- **Non-toxic.**
- **Resistance to positive and negative pressure.**
- **Available in grey or white.**



Grey



White

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

DESCRIPTION

K11 Slurry used with 225 K11 Bonding agent reacts with concrete by a crystallization process to form a 2 part permanent slightly flexible waterproofing membrane capable of bridging cracks, to withstand hydrostatic pressure and for use in saturated conditions.

The unique and highly effective components or elements in the 225 K11 Slurry initiates a chemical reaction on contact with the free water, moisture and lime present within the pores and capillaries of concrete to form insoluble crystal complexes that block the passage of water. These crystals remains integral in the capillaries thus producing a waterproof watertight structure.

225 K11 Bonding agent being a latex milky white liquid is used instead of water to improve workability on the mix, to achieve optimum adhesion to the substrate, to improve elasticity and control shrinkage on setting and to avoid early water loss during the setting process and to avoid salt efflorescence and increase abrasion resistance.

USES

- For application to interior and exterior below grade surfaces against concrete decay and waterborne corrosive salts.
- For application in between horizontal structural slabs and toppings against hydrostatic pressure.
- Seals and protects masonry walls against algae or fungus growth caused by atmospheric pollutants and moisture and to bridge shrinkage cracks.

- To produce a tough and durable waterproofed finish which cannot be easily damaged or worn off including foot trafficking.
- To form a waterproofed underlayments for vinyl and carpet.
- Waterproof external walls against water seepage.
- Waterproofing of surfaces before laying marbles to help prevent efflorescence, ceramic tiles.
- Cementitious waterproofed surface re-conditioner for refurbishment of existing finished, e.g. mosaic tiles.
- Surface treatment to prevent absorption of concrete and autoclaved lightweight concrete (ALC) blocks.
- Suitable substrates : concrete, brickwork, precast surface, lightweight blocks, shotcrete, etc.

SPECIFICATIONS

- Appearance
 - Slurry : Grey or white powder
 - Bonding agent : White milky liquid
- Mixed density : 1.6
- Pot life : 30 minutes at 20°C
- Initial set : 4 hours approx.
- Final set : 5 hours approx.
- Chloride content : <0.002%
- Water absorption : <1%

Bending strength*

| | |
|---------|--------|
| 3 days | 5 MPa |
| 28 days | 20 MPa |

Compressive strength : ASTM C109*

| | |
|---------|---------|
| 3 days | >7 MPa |
| 28 days | >40 MPa |

* Average laboratory values provided as a general guide.



PACKAGING

- 34 kg set
 - Slurry 25 kg.
 - Bonding Agent 9 kg.
- Colour are available in Grey and White.

STORAGE

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

WORK INSTRUCTIONS

Surface preparation

- The substrate must be clean, sound, dust-free and without any traces of oil. All loose parts must be raked out.
- Render honeycomb and bubbles, fill cracks and hollow joints.
- Where repairs are required 731 REPAIR MORTAR should be used.
- Make a chamfer at floor/wall/ceiling re-entrant angles.
- Prewet and saturate until damp the concrete surface with clean water prior to applying 225 K11 System. Do not allow pooling or ponding of water.

Product preparation

- Ensure that any lumps in the 225 K11 Slurry powder are broken up prior to mixing.
- Always add 225 K11 Slurry powder to 225 K11 Bonding agent while continuously stirring, mix for 2-3 minutes using a mechanical stirrer until a smooth creamy, lump free consistency is achieved.

Application

- The mixed 225 K11 System is then applied onto the substrate in a stiffling action using a block brush.
- Apply in minimum of two coats in a perpendicular direction.
- The area to be applied should preferably be premarked and the quantity of material precalculated to ensure that the required coverage is achieved to ensure waterproofed integrity.
- The 2nd coat must be applied whilst the 1st coat is still green but sufficiently set so that it is not drawn off while applying the 2nd coat.
- The mixed material must not be applied at temperature below 5°C or on frozen surfaces, in no instance should the total thickness exceed 5 mm in a single application.

Recommended coverage

- Ground Moisture 1.0-2.0 kg/m²
- Hydrostatic Pressure (positive side) 2.5-3.5 kg/m²
- Hydrostatic Pressure (negative side) 4.0-5.0 kg/m²

Curing

- Protection of 225 K11 System is not obligatory. However if used on external areas, subject to rain, harsh sunlight or frost, the finished application should be protected for at least 24 hours.

PRECAUTIONS

- Temperature range for use : 5°C to 30°C.
- Clean tools with water before the product dries.
- Do not apply in full sunlight or on hot substrate.
- Where possible, carry out external application in shady, cool conditions.
- Take all necessary precautions to prevent overfast drying.
- Do not apply on active cracks.
- The substrate must be dampened prior to application.
- Do not use acid products for the maintenance of engineering structures. Take special care not to damage the mortar coating when cleaning with high-pressure water.
- Water tanks must be rinsed thoroughly prior to filling.
- Hardened materials has to be removed mechanically.
- In order to prevent an increase in the level of water pressure, the land around the building must be adequately provided with a drainage system e.g. to cope with changes in ground water levels.
- The surface must be checked for faults before carrying out pond tests and before the application of next layer (e.g. screed, render, tiles etc.).