



Matryx

CEMENTITIOUS WATERPROOFING SYSTEM BY CRYSTALLISATION

CHARACTERISTICS

- Single component and easy to apply.
- Can be used for positive or negative waterproofing of concrete structure.
- Protection against rising dampness on ground slab.

DESCRIPTION

Lanko K11 Matryx is a cementitious waterproofing system which protects and waterproof concrete structures by crystallisation. The active chemicals react with moisture in the concrete resulting in crystalline formation within the pores and capillary tracts of concrete, thus waterproofing the structure against penetration of water and other liquids from any direction. **Lanko K11 Matryx** gives a strong and lasting waterproofing protection against dampness and ground water hydrostatic pressure.

USES

Recommended for use on interior and exterior below grade surfaces. **Lanko K11 Matryx** gives protection against concrete decay and waterborne porrosive salts.

Can be use for negative waterproofing of concrete structure and on horizontal structural slabs against hydrostatic pressure as it provides strong resistance to impact and abrasion.

Area of Application

- Basements
- Wet areas
- Tunnels
- Underground garages
- Planter boxes

TECHNICAL DATA

| | | |
|---|---------|-------------------------|
| Final Set | | < 16 hours |
| Flexural Strength | 7 days | 4.8 N/mm ² |
| | 28 days | 8.6 N/mm ² |
| Compressive Strength | 7 days | > 25 N/mm ² |
| | 28 days | > 45 N/mm ² |
| Adhesion Strength | | > 1.2 N/mm ² |
| Resistant to hydrostatic pressure when applied on negative side | 28 days | > 0.8 N/mm ² |

Specifications are subjeet to change without notification. Resalts shown are typical but reflect procedures used. Actual field performance will depend on installation methods and site conditions.



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SURFACE PREPARATION

The concrete surface must be clean and free from laitance, oils, grease, curing agents or other foreign matters. If surface is too smooth or highly contaminated with foreign particles, sand blast acid etch surface before treatment.

Concrete surface must be cleaned. Without visible cracks exceeding 0.4 mm wide, honeycombed pockets to depth of about 40 mm and width of 25 mm. Mix three parts of **Lanko K11 Matryx** to one part water by weight, until stiff mortar consistency is achieved. Prime concrete surface with one slurry coat of **Lanko K11 Matryx** before applying the mortar mix onto area to be patched, tightly sealing cavity. **Lanko K11 Matryx** must be applied on damp substrate only to ensure maximum chemical penetration. Pre-wet substrate until damp prior to application of **Lanko K11 Matryx**. If concrete surfaces dries out before application, it must be re-wetted.

MIXING

Mix 7.25 to 7.75 litres of clean water to 25 kg **Lanko K11 Matryx**. Always mix the powder to the clean water by using a mechanical stirrer. Mix for 2 minutes until a smooth lump free consistency is achieved.

APPLICATION

Apply a minimum of 2 coats in perpendicular directions, using block brush. The second coat must be applied while the first coat is still green but sufficiently set so that is not drawn off while applying the second coat.

The mixed material must not be applied at temperature below 5°C or on frozen surface. At no instance should the total thickness exceed 5 mm in a single application.

DRY SHAKE METHOD (NEGATIVE WATERPROOFING)

Sprinkle **Lanko K11 Matryx** powder directly from the packaging after allowing concrete to achieve initial set. Sprinkle **Lanko K11 Matryx** at the rate of 3-3.5 kg/m² evenly and trowel to required finish or powder float.

DRY SHAKE METHOD

(POSITIVE WATERPROOFING)

Sprinkle **Lanko K11 Matryx** powder directly from the packaging at the rate of 2 kg/m² evenly onto the lean concrete substrate just before pouring of the concrete.

Curing

After **Lanko K11 Matryx** coating has hardened, cure the treated surface with a light mist of clean water at regular intervals three times a days, for initial two to three days.

In extremely hot weather curing period may have to be extended to several days.

PROTECTION

Protection of **Lanko K11 Matryx** is not obligatory. However if used on external areas, subjected to heavy rain, harsh sunlight or frost, the finished application should be protected for at least 24 hours.

PACKAGING

25 kg bag.

SHELF LIFE

Shelf life of 12 months stored in unopened bag in a cool dry elevated place.

COVERAGE

For slurry coat / Brush application method, apply at the rate of 1 kg/m² depending on the area of application.

HEALTH AND SAFETY

Lanko K11 Matryx is a cement based product and contains alkali which may cause dermatitis. We recommend that PVC or similar gloves and safety goggles should be worn during handling.

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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