



BUILDING TRUST



# PRODUCT DATA SHEET

## LANKO 202 MATRYX

### CEMENTITIOUS WATERPROOFING BY CRYSTALLISATION

#### DESCRIPTION

LANKO 202 MATRYX is one part cementitious water-proofing slurry modified with selected aggregates and active chemicals. The slurry will migrate in the concrete pore to prevent the penetration of water to all types of concrete structures.

#### USES

- Main use : underground floor before pouring fresh concrete.
- Interior/Exterior.
- Underground car park, basement.
- Substrates : concrete, mortar.

#### CHARACTERISTICS / ADVANTAGES

- Migration of active components and crystalline formation to seal capillary network.
- Resistance to positive and negative water pressure.
- One component system requiring only the addition of clean water.

#### PRODUCT INFORMATION

Composition	Hydraulic cement, additives and mineral filler
Packaging	25 kg bag
Appearance / Colour	Grey powder
Shelf life	1 year from date of manufacture if stored in unopened original packaging in dry condition
Storage conditions	Stored in unopened original packaging in dry condition.
Density	Bulk density 0.9 - 1.1 kg/l
Maximum grain size	0.04 - 0.5 mm

#### TECHNICAL INFORMATION

Tensile adhesion strength	Adhesion to concrete 28 days > 0.5 MPa
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## APPLICATION INFORMATION

<b>Consumption</b>	2 kg / sq.m. (Wet method)
	3 - 3.5 kg / sq.m. (Dry shake - negative waterproofing)
	2 kg / sq.m. (Dry shake - positive waterproofing)
<b>Ambient air temperature</b>	+5 °C to +35 °C.

## APPLICATION INSTRUCTIONS

### SUBSTRATE QUALITY / PRE-TREATMENT

#### Surface Preparation

1. Concrete surface must be clean and free from laitance, oils, grease, curing agents or other foreign matters.
2. If surface is too smooth or highly contaminated with foreign particles, sand blast, acid etch surface before treatment.
3. Rout out visible cracks exceeding 0.4 mm wide, honey combed pockets to depth of 40 mm and width of 25 mm. Mix three parts of LANKO 202 MATRYX to one part water by weight, until stiff mortar consistency is achieved.
4. LANKO 202 MATRYX must be applied on damp surface substrate only to ensure maximum chemical penetration.
5. Prime concrete surface with one slurry coat of LANKO 202 MATRYX before applying the mortar mix onto area to be patched, tightly sealing cavity.
6. If concrete surfaces dries out before application, it must be re-wetted.

### MIXING

#### Product Preparation - Wet Method

1. Mix with power drill one 25 kg. bag with 7.25 to 7.75 litres. of clean water until the product is evenly distributed.
2. Use mixing machine mix at low speed not over than 500 RPM.
3. Mixing time: at least 3 minutes or required consistency is obtained.
4. Leave the mixture to stand for 1 - 3 minutes.
5. Do not add water after mixing.

### APPLICATION

#### Wet method

1. Apply 1<sup>st</sup> coat by brush, float or pump at a rate of 1kg / sq.m.
2. Allow a sufficient drying time so that it is not drawn off while applying the 2<sup>nd</sup> coat. Apply 2<sup>nd</sup> coat, cross-wise at a rate of 1 kg / sq.m.

#### Dry shake method (negative waterproofing)

Spread LANKO 202 MATRYX evenly onto the concrete after allowing fresh concrete to achieve initial set at the rate 3 - 3.5 kg / sq.m. Then, Trowel the surface for smooth finish.

#### Dry shake method (positive waterproofing)

Spread LANKO 202 MATRYX evenly onto the lean substrate before pouring the fresh concrete at the rate 2 kg / sq.m.

### CURING TREATMENT

1. After LANKO 202 MATRYX coating has hardened, cure the treated surface with a light mist of clean water at regular intervals three times a day for initial two to three days.
2. In extremely hot weather curing period may have to be extended to several days.
3. On external areas are subjected to heavy rain or harsh sunlight. The finished application should be protected for at least 24 hours.

## IMPORTANT CONSIDERATIONS

Protect for 24 hours in case of heavy rain or direct sun.

## BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

## LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for the exact product data and uses.

## ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

## LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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