



BUILDING TRUST



PRODUCT DATA SHEET

LANKO 227 FLEX SHIELD

A SINGLE COMPONENT CEMENTITIOUS WATERPROOFING MORTAR

DESCRIPTION

LANKO 227 FLEX SHIELD is a single component cementitious flexible mortar to protect and waterproof of rendered concrete and masonry.

USES

- Interior and Exterior
- Main use : bathroom, kitchen, potable water tank, and swimming pool
- Waterproofing prior to tiling such as bathroom, balcony and terrace (except roof terraces)
- Substrates : concrete and mortar
- Can be expose in light traffic area

CHARACTERISTICS / ADVANTAGES

- Single component, easy to use
- Flexible
- No crack when expose outdoor
- Resistance to micro-cracking
- Approved for contact with potable water
- Non toxic
- UV resistance
- Good adhesion strength
- Performance following standard EN14891

PRODUCT INFORMATION

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| Composition | Hydraulic cement, mineral filler, admixtures and special polymer |
| Packaging | 4 kg pail 20 kg bag |
| Appearance / Colour | Grey powder |
| Shelf life | 12 months from the date of production If stored properly in undamaged and unopened, original sealed packaging. |
| Storage conditions | Store in dry condition and protected from direct sunshine. |
| Density | Fresh mortar density 1.6- 1.7 kg/L Dry density 0.9-1.1 kg/L |
| Maximum grain size | 0.04 - 0.5 mm |

TECHNICAL INFORMATION

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| Tensile adhesion strength | ≥ 1 MPa at 28 days (Bond to concrete) |
| Water penetration under pressure | No water penetration (at 1.5 bar water pressure) |

APPLICATION INFORMATION

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|-------------------------|---|
| Consumption | 3 - 4 kg/m ² for 2 coats at 2 mm thickness |
| Ambient air temperature | +10°C to +35°C |
| Pot Life | ~ 40 minutes (at 25°C) |

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

1. Concrete surface must be clean and without any trace of oil
2. Fill honeycomb, joint and bubbles
3. For damage area, should repair by LANKO 731 STRUCTURE REPAIR before application. (Please contact us for details of product which may be recommended for specific work)
4. Very smooth surface should be roughened
5. Damp the surface before application but not running with water during application

MIXING

Mix 20 kg of LANKO 227 FLEX SHIELD with 5.8 - 6.2 litres of clean water (29% - 31% by weight) with electric drill until the product is evenly distributed and homogenous paste.

Leave to stand for 2 minutes.

APPLICATION

1. LANKO 227 FLEX SHIELD can be applied by brysg and trowel
2. Apply the 1st coat with consumption 1.5 to 2 kg/m²
3. The 2nd coat can be applied after drying period of 2 to 6 hours (Temperature depend) with consumption 1.5 kg to 2 kg/m²
4. Apply a minimum of two cross coats
5. Clean tools with water immediately after use

REINFORCEMENT

- For substrates subject to micro-cracking, the 1st coat should be reinforced with LANKO GLASS FIBER MESH.

SUITABLE COVERING MATERIALS

- LANKO 227 FLEX SHIELD can be covered with tiles within a period of 3 days minimum to 7 days maximum after application of the final coat (bonded with tile adhesive, DAVCO SUPER TTB or DAVCO ULTRAFLEX) or a cement mortar screed.
- For special area such as swimming pool, should be used LANKO 227 FLEX SHIELD bonded with DAVCO ULTRAFLEX or DAVCO POOL TILE ADHESIVE. In addition, for good result should be fill join with DAVCO POOL TILE GROUT or high protection with DAVCO ULTRA EPOXY GROUT.
- High-traffic areas should be protected against abrasion.

IMPORTANT CONSIDERATIONS

- Minimum 2 coats (minimum total dry film thickness 1.5 mm)
- LANKO 227 FLEX SHIELD must not be allowed to dry too quickly. Take all necessary precautions in sunny, dry or windy conditions to prevent over-fast drying.
- Where possible, carry out exterior applications in shady, cool conditions. Do not apply in direct sunlight.
- Do not use acid-based cleaning products.
- Gloves should be worn.
- Reservoirs must be rinsed thoroughly prior to filling.
- In confined environments, do not expose the product to water or steam at a temperature above +40°C.

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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