

**DUAL-COMPONENT FLEXIBLE
HYDRAULIC MICRO-MORTAR**
PROTECTION AND WATERPROOFING
OF MASONRY AND CONCRETE STRUCTURES

228
LANKOLASTIC

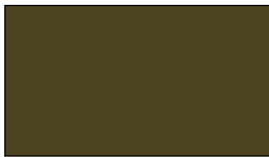
W A T E R P R O O F I N G

LANKO

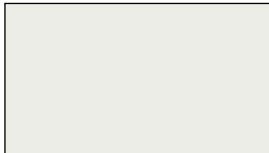


CHARACTERISTICS

- **Excellent resistance to sea water, sulphated water and de-icing salt.**
- **Significantly reduces carbonation by protecting against CO₂**
- **Protects reinforced concrete against corrosion.**
- **Resistant to micro-crazing.**
- **Good resistance to UV rays.**



Grey



White

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

DESCRIPTION

228 LANKOLASTIC is a dual-component resilient hydraulic micro-mortar used for protection and waterproofing. Once applied to rendered concrete and masonry 228 LANKOLASTIC forms a bonded, flexible, protective film.

USES

Waterproofing :

- Reservoirs, water towers, retention tanks, engineering structures, etc.
- Under-tile sealant for public and private swimming pools (bonded with Davco SUPER TTB or SE-7).
- Under-tile or mortar-covering sealant for balconies, loggias and terraces (except terrace roofs)
- Lift shaft basements, car parks, underground premises, etc.
- Under-tile sealant for damp premises.

Protection against :

- Weathering (engineering structures, silos, concrete domes, etc.)
- Harmful water* (underground tanks, water treatment stations, industrial discharge, etc.)
- Please contact us regarding the compatibility of coverings with contact products.

SPECIFICATIONS

- Appearance
 - Component A : grey or white powder composed of special cements, filler and admixtures.
 - Component B : white milky liquid containing resins in aqueous dispersion
- Colour : Grey or White
- Weight ratio
 - Component A : 70 parts
 - Component B : 30 parts
- Paste density : 1.8
- Particle size : 0 to 0.1 mm
- Bonding on concrete
 - before immersion : 1.2 MPa
 - after immersion : 1 MPa
- Pressure resistance : 1 MPa
- Counter-pressure resistance : 0.3 MPa
- CO₂ permeability : 1g/m²/24h
- Crack resistance at 20°C
 - Non-reinforced : 4.2 mm.
 - Reinforced : 5.2 mm.
- Crack resistance at 0°C
 - Non-reinforced : 2.3 mm.
 - Reinforced : 3.3 mm.
- Taber Abrasion : Mass loosing: 0.18 g at 1000 circles

* average laboratory values provided as a general guide.



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.
- Fill honeycombing and bubbles.
- Where repairs are required 731 REPAIR MORTAR 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.
- Substrates must be clean, sound, and free of any loose or flaking parts.
- Dampen as required.
- Remove residual water.

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 a further 3 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.
 - Shading can be adjusted by mixing grey and white powder.

Application

- 228 LANKOLASTIC is applied :
 - by hand : roller or brush.
 - by machine : peristaltic pump or spray gun.
- Apply a 1st coat allowing a rough but reasonable quantity of 1.5 - 2 kg/m².
- The total thickness of the covering should be approximately 2mm, and never less than 1.5mm.
- Coats can be floated using a filler knife or stainless steel smoothing trowel. The 2nd coat can be applied after a drying period of 4 - 24 hours (temperature dependent), allowing a quantity of 1.5 - 2 kg/m².

- Mortar must be used within 2 hours 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 ARMATURE RM. The latter should be used for all specific reinforcement needs.
- Possible covering materials :
228 LANKOLASTIC may be left bare, or covered with tiling (bonded using Davco Tiling System) or a cement mortar screed. High-traffic areas should be protected against abrasion. Water tanks and basins can be filled after 7 days drying.
- Please contact us if you require further information.

PRECAUTIONS

- Temperature range for use : 5°C to 35°C.
- Minimum 2 coats (minimum total thickness on drying = 1.5mm).
- The substrate must be dampened prior to application.
- Do not re-dampen between coats. Wipe off any condensation water.
- Where possible, carry out exterior applications in shady, cool conditions.
- The mortar coating must not be exposed to frost within 24 hours of application. Do not apply to frozen or thawing substrates.
- Clean tools with water immediately after use.
- 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.
- Gloves should be worn.
- Water tanks must be rinsed thoroughly prior to filling.
- Refer to the safety data sheet.