

LANKO



CHARACTERISTICS

- **Application thickness : 3-8 mm.**
- **Self-levelling and self-smoothing.**
- **Excellent adherence.**
- **Compatible with traditional floor-coverings.**
- **Quick opening to traffic.**

DESCRIPTION

173 SL1 is a self-levelling screed for old and new interior floors. Application thickness is between 3 mm and 8 mm. It is a ready-to-wet mortar for preparing substrates before laying thin floor coverings.

173 SL1 can be covered with most floor-coverings.

USES

Interior floors where an even and smooth surface is required e.g. houses, hospitals, hotels, office building.

Permissible substrate :

- Mortar screed.
- Concrete slabs.
- Prefabricated elements.

Possible covering materials :

- Carpet.
- Vinyl sheeting.
- Ceramic tiles.
- Parquet.
- Rubber.
- Floor paints.

SPECIFICATIONS

- Appearance : Grey powder.
- Particle size : 0-0.3 mm
- Bulk density : 1.4±0.1
- Pot life : 25 minutes
- Open to light traffic : 4-8 hours
- Time before covering (at 3 mm thick)
 - Carpet, ceramic tiles : 1-2 days
 - Vinyl sheeting, rubber : 2-3 days
 - Parquet : 3 days
 - Floor paints : > 7 days

Performance*

Bond strength by slant shear test : ASTM C882*

7 days 5 MPa

28 days 6 MPa

Compressive strength : ASTM C109*

7 days 22 MPa

28 days 30 MPa

Direct tensile strength : ASTM C190*

28 days 2.5 MPa

* Average laboratory values provided as a general guide.



COVERAGE

1.6 kg/m²/mm.

PACKAGING

- 25 kg bag.

STORAGE

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

WORK INSTRUCTIONS

Substrate preparation

- Substrates must be compliant with building regulations in force and at least 28 days old.
- Substrates must be clean, sound, solid, dust-free and without any traces of oil, laitance, curing compound, cracks, plaster or paint and any other product, which may affect bonding.
- Scrape, brush off or vacuum clean all traces of plaster, laitance, paint, non-bonded adhesive.
- Substrates bearing excessive traces of wax, grease or paint must be stripped.
- All substrates must be thoroughly dusted.

Priming

- Normal substrate : soak the substrate several hours and remove excess water prior to application.
- Smooth, dense or porous substrate : apply 162 FLOW PRIME on the substrate. This layer must still be fresh when pouring 173 SL1.

Product preparation

- Machine-mix (approx. 500 rpm.) one 25 kg bag of 173 SL1 with 5.5-6 litres of clean water (i.e. 22-24% water content) until the compound is evenly distributed and lump-free. The powder must be poured into the water.
- Leave the mixture to stand for several minutes.
- No water must be added once the mixture has been left to stand.

Application

- The mixture is gradually poured onto the substrate prepared in accordance with the mentioned instructions.
- Once the mixture has been cast, a screed board, pressed on the battens, a spike roller or stainless steel float should be used for levelling.
 - On forward strokes hold the float almost vertical in order to remove air bubbles.
 - On backward strokes hold the float almost horizontal in order to obtain the required thickness.

Joint

- Joints should be made using a machine saw or by laying a plastic tracking strip.
 - Every 25 m², at a maximum distance of 8 m, if the surface to be painted or left bare.
 - Every 50 m², at a maximum distance of 10 m, in all other cases.
- Pre-existing construction or expansion joints must be respected.

PRECAUTIONS

- Temperature range for use : 5°C to 35°C.
- All windows and doors should be closed to avoid draughts and premature drying during the first few hours following application.
- Do not apply in full sunlight or on hot substrate.
- In cold weather, the temperature of mixing water should be above 10°C.
- As soon as the mortar begins to set, the exposed surface should be treated with a protective coating (e.g. 361 LANCURE), preferably by spraying.