

SELF LEVELLING UNDERLAYMENT FOR INTERNAL AND EXTERNAL APPLICATIONS

173 FLOOR LEVELLER

S U R F A C E P R E P A R A T I O N

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DESCRIPTION

Lanko 173 Internal / External Floor Leveller is a cement based levelling compound for use over concrete sub-floors prior to the application of floor coverings. Lanko 173 Floor Leveller is ideal for repairing small holes, static cracks and depressions. It requires the addition of only potable water to achieve a highly fluid consistency producing a smooth, level, and hard surface. Lanko 173 Floor Leveller can be applied in multiple layers with each layer being no more than 25mm thick or can be economically extended with a graded aggregate to fill greater depths.



USES:

Lanko 173 Floor Leveller is used to repair dry areas of structurally sound concrete subfloors. Lanko 173 Floor Leveller is used as a subfloor underlayment prior to installation of carpet, tiles or other floor covering systems. It is compatible with commonly used adhesives and normally can receive floor coverings within hours of installation – please see Test Data below. Lanko 173 Floor Leveller is not a wearing surface and **must** be protected with a compatible topping, floor covering or coating. Lanko 173 is not suitable for use in permanently wet areas of immersion.

TEST DATA:

Properties:

Pot Life:	~ 10 mins
Initial Set:	~ 1.5 hrs
Final Set Time:	~ 2.0 hrs
Reflow Time:	~ 10 mins
Foot Trafficable:	2 – 3 hrs
Ready to Receive Tiles:	~ 4 hrs
Ready to Receive Carpet:	~ 16 – 24 hrs
Ready to Receive Vinyl:	~ 24 – 36 hrs

SURFACE PREPARATION:

- Surfaces, must be dry, structurally sound, clean, free of dust, dirt, wax, oil, grease, asphalt, mastic, latex compounds, adhesives, paint, gypsum based products, and other contaminants.
- All concrete sub-floors must be fully cured and dry, in accordance with AS1884-1985 (maximum moisture content 5.5% or 70% humidity). They must be free of laitance, loose or deteriorated concrete, curing or form release agents, other contaminants and have a wood float finish. For sub-floors with a high moisture content or subject to rising damp, apply Lanko 531 Epoxy Moisture Barrier. Refer to datasheet for specific instructions.
- Non-porous surfaces, such as power trowelled or steel floated concrete, must be primed with Lanko 531 Epoxy Moisture Barrier or Davco Ultrabond. Alternatively, they can be acid etched or mechanically abraded.
- Deeply contaminated substrates must be abraded to a clean, sound surface or some substrates can be prepared with the use of Davco Ultrabond – a bonding coat for contaminated surfaces. Contact the Lanko Technical Advisory Line for further details on the suitability of Ultrabond over different contaminants.
- Patch large cracks and holes with a suitable Concrete Repair Mortar.
- Any construction joints in the underlying sub-floor should be carried through the Lanko 173 Floor Leveller, to avoid cracking.

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SURFACE PRIMING:

- Priming is crucial prior to the application of Lanko 173 Floor Leveller. It is designed to improve adhesion and greatly reduce pinholing in the finished floor.
- Porous concrete surfaces must be primed with Lanko 124 Ultraprime. Use Lanko 124 Ultraprime directly from the container – do not dilute.
- Under hot, windy conditions (Temp above 30°C), it is essential to wet down any concrete slabs with clean water prior to priming, so that the primer does not flash dry. After wetting down the floor, do not allow the water to pool or pond on the surface. The substrate should appear matt, with no signs of glistening water evident prior to application of the primer.
- **Test areas**
Test areas should be performed in all cases, to assure the suitability of the product for the intended use. This should include the floor finishing/covering.

MIXING INSTRUCTIONS:

- Electric stirring is required as it produces a much smoother mix. The most efficient method of mixing Lanko 173 Floor Leveller is by using a $\frac{1}{2}$ inch or 12 mm heavy duty electric drill (maximum 650 rpm). Concrete mixers or hand mixing are not suitable methods.
- Add approximately 4 – 4.5L of potable water to a clean bucket, and then slowly add the 20kg bag of Lanko 173 Floor Leveller. Mix for no less than 2 minutes, and long enough to provide a smooth, lump free, flowable blend. If foaming and streakiness appear on top of the mixture, Lanko 173 Floor Leveller is over-watered, and should not be placed on the substrate.
- For large areas requiring fills between 25 and 100mm, add washed, surface dry, graded gravel to the mix. If the gravel is 3 to 8mm, add 10kg of gravel per bag of Lanko 173 Floor Leveller. If the gravel is 8 to 12mm, add 20kg of gravel per bag of Lanko 173 Floor Leveller. Mix the Lanko 173 first, and then add the dry aggregate to the mixed material. Reduce the water required if the aggregate is damp. The addition of aggregate will severely reduce material flowability. It is very important not to add more than the quantities of aggregate specified above. A subsequent smoothing layer may be required, if aggregate is added to the mix.
- If pumping, mix in an appropriate pre-pump mixer. Do not mix more material than can be used in 10 minutes. Mix speeds must not be too high; otherwise they will cause aeration.
- Clean mixers and pumps thoroughly after each batch to avoid material build up.
- For any additional mixing instructions, not covered above, contact the Lanko Technical Advisory Line.

APPLICATION TECHNIQUES:

- Pump or hand pour Lanko 173 Floor Leveller on to the primed surface. Move it into approximate position with an underlayment spreader, and allow the material to seek its own level.
- Place Lanko 173 Floor Leveller soon after mixing. It will achieve initial set in approximately 2 hours, and may be walked on in approximately 2 - 3 hours.
- Lanko 173 Floor Leveller must cure at least 4 hours before tiling; at least 16 – 24 hours before carpeting and at least 24 – 36 hours before laying vinyl. Although Lanko 173 Floor Leveller can be used externally, it is important to protect the product during placement and whilst curing from direct sunlight and winds. This is to prevent flash set / cure and desiccation (excessive moisture loss). This is particularly important when laying thicknesses in excess of 10mm.
- When additional thickness is required, Lanko 173 Floor Leveller may be layered up to 15mm without aggregate to provide additional depth. The additional layer may be applied directly over the surface as soon as it will support foot traffic. Lanko 124 Ultraprime must be used if more than 24 hours passes before the new material is applied.
- For information about pumping equipment, contact the Lanko Technical Advisory Line.

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COVERAGE:

One 20kg bag of Lanko 173 Floor Leveller will cover approximately 12m² at 1mm thickness.

CLEAN-UP INSTRUCTIONS:

- Clean mixing and application equipment with water immediately following use.
- Remove splatter or spills with water before material sets.
- Lanko 173 Floor Leveller contains cementitious materials, and if allowed to dry, removal becomes extremely difficult.

PRECAUTIONS:

- Do not use Lanko 173 Floor Leveller over a slab with a high moisture content or that is subject to rising damp, unless Lanko 531 Epoxy Moisture Barrier is used prior. If there is any possibility the sub-floor will be subject to rising damp at a later date, then Lanko 531 Epoxy Moisture Barrier must be used prior.
- Ensure all surface preparation and priming instructions are followed precisely.
- Construction joints in the sub-floor must be detailed through Lanko 173 Floor Leveller to prevent cracking.
- Lanko 173 Floor Leveller should not be over-watered, over-mixed, or re mixed with additional water. Any material over 10 minutes old should be discarded and not used.
- Do not add cement, lime, gypsum, plaster, bonding agents, aggregates or other materials except where specified on this brochure. If unsure, contact the Lanko Technical Advisory Line.
- Do not mix or apply Lanko 173 Floor Leveller when temperatures are below 5°C or above 35°C. Also, do not apply if temperatures are expected to reach these levels within 24 hours after application.
- If Lanko 173 Floor Leveller is to be left exposed for longer than 48 hours before covering, particularly in outdoor and / or warm conditions, it must be sealed with Lanko 742.
- Do not apply Lanko 173 Floor Leveller over frozen or frost filled surfaces.
- Test areas are recommended, to ensure the suitability of the product for the intended use. This should include the floor finishing/covering.

HIGH STRESS AREAS:

- Lanko 173 Floor Leveller is not recommended for use in areas of high stress or under exacting conditions eg. installation over timber flooring, fibre cement sheeting, metal decks, over existing floor coverings, such as ceramic tiles and quarry tiles, any sub-floors subject to movement, vibration, high loads or over heated sub-floors. Instead, we recommend the use of Lanko 133 Pro Level for these applications. Refer to the Lanko 133 Pro Level datasheet for specific instructions.

PACKAGING:

20kg polylined bags.

FLOOR COVERINGS:

As a general guide, the surface finish of Lanko 173 Floor Leveller is not dissimilar to concrete. Any adhesives used to bond subsequent floor coverings that are compatible with concrete will be compatible with Lanko 173 Floor Leveller. Strictly follow the floor covering adhesive manufacturer's instructions.

SHELF LIFE / STORAGE:

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- Storage: must be stored in a cool, dry elevated place and protected from high humidity.
- Shelf Life: Up to 6 months in unopened bags, if stored as specified above

SAFETY:

- Being cement based, Lanko 173 Floor Leveller is alkali in nature, which can cause dermatitis. Thus, when using Lanko 173 Floor Leveller, it is recommended that applicators wear PVC or similar gloves and safety goggles.
- For a full MSDS on this product, contact the Lanko Technical Advisory Line.

TECHNICAL SERVICE:

For application procedures or surface conditions not specified above, please contact the Lanko Technical Advisory Line on 1800 653 347 or visit our website on www.lanko.com.au.

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 usage. All workmanship must be carried out in accordance with ParexDavco's specific instructions.

The information contained herein is to the best of our knowledge true and accurate. No warranty is implied or given as to its completeness or accuracy in describing the performance or suitability of the product for a particular application. Users are asked to check that the literature in their possession is the latest issue.

PAREXDAVCO

ParexDavco (Australia) Pty Limited

ABN 28 093 876 558

67 Elizabeth Street Wetherill Park NSW 2164 Australia

Telephone: 61 2 9616 3000 Facsimile: 61 2 9725 5551

Toll Free Technical Advice Line: 1800 653 347

Email: technical@parexdavco.com.au Website: www.parexdavco.com.au

