

# SELF LEVELLING UNDERLAYMENT FOR INTERNAL FLEXIBLE SUBSTRATE APPLICATIONS

# 184

**FLEXIBLE  
FLOOR LEVELLER**

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

# LANKO

## DESCRIPTION

### USE

Floor levelling compound for internal, flexible substrates prior to installation of a floor covering.

**Lanko 184 Flexible Floor Leveller** can be used in place of cement sheet underlay in tiling or in place of hardboard underlay in carpet or vinyl installations, **Lanko 184 Flexible Floor Leveller** is quicker and easier to install and provides a superior smooth and level surface for a high quality finished installation.



### LOCATION

- Internal locations.
- Domestic and commercial use. Areas such as office space, shops, restaurants, walkways, living areas and heavy foot traffic locations.

### SUBSTRATES

**Lanko 184 Flexible Floor Leveller** can be applied onto:

- Flexible substrates including;
  - Correctly installed timber floor.
  - Correctly installed fibre cement sheet.
  - Correctly installed metal deck.
- Securely bonded existing floor tiles.
- Securely bonded existing vinyl sheet (for new ceramic tile or carpet installations only).
- Existing vinyl tiles which are securely bonded across all points of tiles.
- Securely adhered old tile or vinyl adhesive.
- Securely adhered epoxy paint.
- Freshly applied epoxy moisture barrier.
- Wood float finished concrete.

### FLOOR COVERINGS

- Ceramic tiles, vinyl or carpet can all be easily adhered to Lanko 184 Flexible Floor Leveller.
- Alternatively an epoxy paint finish may be applied to provide wear resistance.

## DIRECTIONS

### TEST AREA

- A test should be undertaken in all cases to ensure suitability.
- This should include the floor covering.

### SURFACE PREPARATION & PRIMING

#### GENERAL

- All substrates must be structurally sound, dry, clean and free from movement, oil, grease, wax, curing compounds and any other loose or contaminating materials. Deeply contaminated substrates must be scabbled / abraded to a clean, sound surface and vacuum cleaned.
- Movement joints in the substrate must be carried through the **Lanko 184 Flexible Floor Leveller**.
- Undertile heating must be correctly fixed according to manufacturer's instructions and relevant Australian Standard(s).
- Ensure the site is protected from draughts before commencing as flash drying of **Lanko 184 Flexible Floor Leveller** will adversely affect product performance.

#### TIMBER FLOOR

- All building boards must be firmly fixed according to the manufacturer's instructions and relevant Australian Standard(s).
- All timber must be free of all coatings including paint, varnish, oil (including tongue oil), polish, wax, etc.:
  - Use 80 grit sand paper to remove all coatings.
  - Structural particle board (e.g. Yellow Tongue) must have the wax like coating on upper surface fully removed through sanding.
- Once the true timber is fully exposed, primer is NOT required prior to the application of **Lanko 184 Flexible Floor Leveller**.

#### FIBRE CEMENT & COMPRESSED FIBRE CEMENT SHEET

- All building boards must be firmly fixed according to the manufacturer's instructions and relevant Australian Standard(s).
- Fibre cement sheet must be primed with **Lanko 124 Ultraprime**.
- Compressed fibre cement sheet must be primed with **Davco Dampflex Primer**.
- James Hardie Scyon board should be treated with a single coat of **Lanko 531 Epoxy Moisture Barrier** in place of regular primer.

#### EXISTING FLOOR TILES

- Examine existing tiles by tapping each one and remove any that are found to be loose or drummy.
  - Any tiles removed do not need to be replaced; the void can be filled with **Lanko 184 Flexible Floor Leveller** during or a suitable patching mortar such as **Lanko 136 Rapid Patching Mortar**. In all cases follow all applicable instructions for surface preparation and application according to the substrate material and depth of fill.
- All tiled surfaces must be free of all dirt and coatings or sealers:
  - If sealer is present on tiles, contact ParexDavco Technical Advice Line.
  - Thoroughly clean the surface of all dirt with a stiff brush and, if necessary, water. Once dry, vacuum clean to remove dust prior to application of **Lanko 184 Flexible Floor Leveller**.
- Do not use primer over existing tiles.

#### EXISTING VINYL

- Existing vinyl must be securely adhered to the substrate before applying **Lanko 184 Flexible Floor Leveller** over it. Examine the vinyl to ensure there are no bubbles, creases, or loose sections.
- Existing vinyl tiles must be securely bonded across all points of all tiles.
- Existing vinyl sheet must only be overlaid with **Lanko 184 Flexible Floor Leveller** for new ceramic tile or carpet installations. For new vinyl installations, remove all existing vinyl

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- Vinyl must be clean and free of all coatings including paints, polish, wax, sealers, etc.:
  - Use an alkali stripper to remove any sealer on the surface of the vinyl.
- Do not use primer over existing vinyl.

### OLD ADHESIVE

- Old adhesives may include ceramic tile adhesive or vinyl flooring adhesive.
  - For other types of adhesive, contact the ParexDavco Technical Advice Line.
- Mechanically remove as much of the old adhesive/glue as possible. All remaining adhesive should be securely adhered to the substrate.
- Thoroughly clean the surface with a stiff brush and vacuum cleaner.
- Priming will depend on the type of old adhesive and the true substrate material and it's degree of exposure. Contact the ParexDavco Technical Advice Line.

### METAL DECKS

- Metal substrates must be abraded to a clean, fresh surface, vacuum cleaned and then treated with a suitable metal etching primer.
- Aluminium will react with cement in **Lanko 184 Flexible Floor Leveller**. Take extra care to protect site and prepare aluminium substrates appropriately.

### CONCRETE

- Concrete substrates must be free of laitance, loose or deteriorated concrete, curing or release agents and other contaminants. Failing concrete must be repaired with a suitable concrete repair mortar, such as **Lanko 136 Rapid Patching Mortar**.
- All concrete substrates must be fully cured and dry in accordance with AS1884 (maximum moisture content 5.5% or 70% humidity). For concrete substrates with high moisture content or subject to rising damp, **Lanko 531 Epoxy Moisture Barrier** should be applied in place of regular primer, prior to the installation of **Lanko 184 Flexible Floor Leveller**.
- Steel trowel finished concrete should be mechanically abraded and vacuum cleaned to a porous finish.
- Fully dry, porous concrete should be primed with **Lanko 124 Ultraprime**.

## MIXING

### MIX RATIO

- 20kg of **Lanko 184 Flexible Floor Leveller Part A** (powder) must be mixed with 5l of **Lanko 184 Flexible Floor Leveller Part B** (liquid).
- Floor levelling is a fast paced operation. Before commencing mixing, be sure to have sufficient materials, equipment and labour available to allow subsequent pours within the reflow time of the product.
- Do not mix more material than can be used within 15 minutes.

### MIXING INSTRUCTIONS

1. Pour the full **5L** content of the liquid (**Part B**) from the jerry can into a clean bucket.
2. Slowly add the full **20kg** content of the powder (**Part A**) into the liquid while mixing with a wire frame-type mixing paddle (specifically designed for mixing floor levellers) and drill.
  - Mixing drill should be set to 500r.p.m.
  - Do not mix by hand or with a concrete mixer.
3. Continue to mix for at least 4 minutes until a fluid consistency is achieved, free of lumps of powder.
4. Allow the mixture to stand for 1 minute before pouring.

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## APPLICATION

	Single Layer Thickness: Min	Single Layer Thickness: Max	Multiple Layer Instructions
<b>Lanko 184 Flexible Floor Leveller:</b> General Application	1mm	25mm	Allow at least 3 hours setting time and prime surface with <b>Lanko 124 Ultraprime</b> before pouring of subsequent layers.
<b>Lanko 184 Flexible Floor Leveller:</b> Over timber floor	3mm	25mm	Allow at least 3 hours setting time and prime surface with <b>Lanko 124 Ultraprime</b> before pouring of subsequent layers.
<b>Lanko 184 Flexible Floor Leveller:</b> Over metal deck	2mm	3mm	Do not use multiple layers of <b>Lanko 184 Flexible Floor Leveller</b> over metal deck.

1. Pump or hand pour **Lanko 184 Flexible Floor Leveller** onto the surface.
2. Move into position with a stand up spreader. Once spread to all areas the material is sufficiently fluid to "self-smooth" and heal of trowel marks within the reflow time.
3. After applying, wait 3 hours before allowing light foot traffic.
4. After applying, wait before applying floor covering\*:
  - 4–6 hours for tiles,
  - 16–24 hours for carpet,
  - 24–36 hours for vinyl.
5. Clean tools and equipment with water before the leveller dries.

**Note:** \* All times are based on measurement at 22°C and 50% relative humidity. In cold weather setting time will be slower and in warm weather setting time will be faster.

## PRECAUTIONS

## SAFETY

- It is recommended that applicators wear PVC or similar gloves and safety goggles.
- **MSDS is available from [www.lanko.com.au](http://www.lanko.com.au).**

## GENERAL

- Lanko 184 is not suitable for use in any area with a flexible substrate which is exposed to wheeled traffic, including for example scissor lifts and service vehicles as used in shopping centres, airports, etc.
- For application over timber floor or fibre cement sheet, these substrates must be firmly fixed according to the manufacturer's instructions and relevant Australian Standard(s). As a general rule, deflection of the substrate should be no more than 1:360.
- For application over existing floor tiles, the tiles must be securely bonded to the substrate. Test all tiles and remove any that are found to be loose or drummy.
- Existing vinyl sheet must only be overlaid with **Lanko 184 Flexible Floor Leveller** for new ceramic tile or carpet installations. For new vinyl installations, remove all existing vinyl.
- **Lanko 184 Flexible Floor Leveller** is not a wearing surface and must be covered with a suitable floor covering or coating.
- Do not use if the area is to be immersed or constantly wet.
- Movement joints in the substrate must be detailed through **Lanko 184 Flexible Floor Leveller**.

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- Protect site from draughts during application and curing.
- Do not use when temperatures are below 5°C or above 35°C. Do not apply if temperatures are expected to reach these levels within 24 hours after application.
- Ensure all surface preparation, priming, testing and mixing instructions are followed precisely. Do not mix with water. Do not add cement, lime, gypsum, plaster, bonding agents, aggregates or other materials.
- Any material over 15 minutes old should be discarded and not used.

## TECHNICAL

### TECHNICAL SERVICE

For applications not specified above visit [www.Lanko.com.au](http://www.Lanko.com.au) or contact the Technical Advice Line on 1800 653 347.

### TECHNICAL DATA

All measurements are taken at 22°C and 50% relative humidity.

<b>Appearance</b>	grey powder / milky liquid. mixes to a grey liquid. dries to a grey mortar.
<b>Coverage 20kg bag and 5l jerry</b>	12m <sup>2</sup> at 1mm thick
<b>Pot life</b>	15 minutes
<b>Reflow time</b>	10 minutes
<b>Light foot trafficable</b>	3 hours
<b>Ready to receive tiles</b>	4-6 hours
<b>Ready to receive carpet</b>	16-24 hours
<b>Ready to receive vinyl</b>	24-36 hours
<b>Fully serviceable</b>	24-36 hours
<b>Shelf life</b> when stored unopened in an elevated, cool, dry position	6 months – Part A (powder) / 12 months – Part B (liquid)

## SPECIFICATIONS

	<b>Compressive Strength Test Results (AS 2350.11)</b>	<b>Flexural Strength Test Result (AS 1012.11)</b>
<b>Cured 1 day</b>	10 MPa	2 MPa
<b>Cured 3 days</b>	13 MPa	3 MPa
<b>Cured 7 day</b>	16 MPa	4 MPa
<b>Cured 14 days</b>	19 MPa	5 MPa
<b>Cured 28 days</b>	25 MPa	6 MPa

<b>Pull-Up Test Results – Various Substrates (recorded after cured for 7 days)</b>			
<b>Fibre cement sheet</b>	Lanko 124 Ultraprime	1.6 MPa	Cohesive failure of substrate
<b>Yellow tongue board – Unwaxed</b>	No primer	1.0 MPa	Cohesive failure of substrate
<b>Standard concrete test block</b>	Lanko 124 Ultraprime	>2.00 MPa	Cohesive failure of Lanko 184

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## 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.*

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