

THE USE OF LANKO 133 PRO LEVEL IN HIGH STRESS AREA APPLICATIONS

PRODUCT DESCRIPTION

LANKO 133 Pro Level is a professional grade cement based internal/external self levelling, high strength underlayment designed for levelling floors. Lanko 133 Pro Level can be feather-edged and has properties similar to that of concrete and depending on the application eliminates or minimises trowelling. Lanko 133 Pro Level 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.

HIGH STRESS AREAS:

Lanko 133 Pro Level is a versatile product for use in a wide range of installation types. However, when Lanko 133 Pro Level is to be used in areas of high stress or under exacting conditions, the following special instructions need to be followed.

The following situations are classified as areas of high stress:

- Installation over :
 - timber flooring
 - compressed fibre cement sheeting
 - metal decks
 - over existing floor coverings, such as ceramic tiles and quarry tiles
- Sub-floors subject to :
 - movement
 - vibration
 - high loads

INSTALLATION OVER TIMBER FLOORING:

1. All timber floors must be structurally sound, and fixed according to the manufacturer's installation instructions. As a guide, the floor should be fixed to ensure that the load deflection/deformation in the substrate does not exceed 1/360 of the span when measured under 140kg concentrated load. This means that for a timber floor with 450mm centres, there can be no more than a 1.25mm vertical movement when measured under a 140kg concentrated load. The timber surface must be free from any varnish, stains, oils or other contaminating coatings. If unsure at this point, please contact the Lanko Technical Advisory Line for further advice.
2. Lightly sand the timber floor to ensure all surface contaminants are removed, and then prime the floor using Lanko 124 Ultraprime as per instructions on the relevant data sheet. Heavier sanding may be required for built-up contaminants. Be careful not to oversand timber floors and ensure a sharp sanding pad is used otherwise, the sanding can seal and close the surface of the timber, making it more difficult to adhere to.
3. Ensure that the Lanko 133 Pro Level is applied within 24 hours of the applications of Lanko 124 Ultraprime.
4. Staple or fix a thin galvanised diamond metal lath mesh to the sub-floor – typically 12mm metal lath. A suitable product is available from the Locker Group (Expamet) and is known as 12mm Tilers Lath.

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5. Mix Lanko 133 Pro Level as per instructions on data sheet. Instead of using neat water for the mix, gauge Lanko 753 Acrylic Additive 1 part with 2 parts water, and use this to prepare the mix. Use approx 5L of this mix per 20Kg bag.
6. Apply the Lanko 133 Pro Level over the metal lath, ensuring it is covered by at least a 3mm thickness of the leveller.
7. Lanko 133 Pro Level will achieve initial set in approximately 60 -75 minutes, and may be walked on in approximately 3-5 hours. Lanko 133 Pro Level must cure 16-24 hours, after which time it is ready to accept any compatible floor coverings.

INSTALLATION OVER COMPRESSED FIBRE CEMENT SHEETING:

1. Ensure the flooring is structurally sound and fixed according to the manufacturers instructions.
2. Remove any loose or contaminating particles that may interfere with adhesion.
3. Prime the floor with Lanko 124 Ultraprime. Allow to dry. Lanko 133 Pro Level must be applied within 24 hours, or Lanko 124 Ultraprime must be reapplied.
4. Mix Lanko 133 Pro Level as per instructions on data sheet. Instead of using neat water for the mix, gauge Lanko 753 Acrylic Additive 1 part with 2 parts water, and use this to prepare the mix. Use approx 5L of this mix per 20Kg bag.
5. Apply the Lanko 133 Pro Level over the floor, ensuring it achieves a minimum of 3mm thickness.
6. Lanko 133 Pro Level will achieve initial set in approximately 60 -75 minutes, and may be walked on in approximately 3-5 hours.
7. Lanko 133 Pro Level must cure 16-24 hours, after which time it is ready to accept any compatible floor coverings.

INSTALLATION OVER METAL DECKS:

1. The metal surface must be clean and free from any dirt, oil, grease and any other contaminants. All rust must be mechanically removed.
2. Prime the entire metal surface with a suitable metal priming system, such as Watty Killrust Metal Etch Primer (ensure it has built in corrosion resistance).
3. Subsequently prime the whole area using Lanko 531 Epoxy Moisture Barrier. Refer to Lanko 531 datasheet for specific instructions.
4. Apply the Lanko 133 Pro Level within 24 hours of the application of Lanko 531.
5. Mix Lanko 133 Pro Level as per instructions on data sheet. Instead of using neat water for the mix, gauge Lanko 753 Acrylic Additive 1 part with 2 parts water, and use this to prepare the mix. Use approx 5L of this mix per 20Kg bag.
6. Apply the Lanko 133 Pro Level over the floor, ensuring it achieves a minimum of 3mm thickness.
7. Lanko 133 Pro Level will achieve initial set in approximately 60 -75 minutes, and may be walked on in approximately 3-5 hours.
8. Lanko 133 Pro Level must cure 16-24 hours, after which time it is ready to accept any compatible floor coverings.

INSTALLATION OVER EXISTING FLOOR COVERINGS:

1. Existing floor coverings covered in this section include vinyl and linoleum floors, ceramic tiles, quarry tiles, terrazzo floors, epoxy, polyurethane and paint coatings.
2. Ensure the existing covering is firmly bonded. If not, take appropriate mechanical action (grinding, scabbling, scarifying etc) to remove any loose or flaky sections.
3. Clean the floor to remove all grease, dirt, oil, polish and contaminants.
4. In the case of epoxy, polyurethane and paint coatings, mechanically roughen the floor in addition to undertaking the cleaning process.

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5. Apply a coat of Lanko 531 Epoxy Moisture Barrier, Lanko Neoprene primer or Davco Ultrabond over the whole floor, and allow it to cure. Refer to the chosen product datasheet for specific instructions.
6. Never apply Lanko 133 Pro Level more than 24 hours after installing the Lanko 531 Epoxy Moisture Barrier, Lanko Neoprene primer or the Davco Ultrabond.
7. Mix Lanko 133 Pro Level as per instructions on the data sheet. Instead of using neat water for the mix, gauge Lanko 753 Acrylic Additive 1 part with 2 parts water, and use this to prepare the mix. Use approx 5L of this mix per 20Kg bag.
8. Apply the Lanko 133 Pro Level over the floor, ensuring it achieves a minimum of 3mm thickness.
9. Lanko 133 Pro Level will achieve initial set in approximately 60 -75 minutes, and may be walked on in approximately 3-5 hours.
10. Lanko 133 Pro Level must cure 16-24 hours, after which time it is ready to accept any compatible floor coverings.

INSTALLATION OVER RIGID SUB-FLOORS SUBJECT TO MOVEMENT,
VIBRATION OR HIGH LOADS (such as fork lifts, heavy trolleys etc):

1. These details cover installations of Lanko 133 Pro Level where vibration and high loads may be expected.
2. These details cover installation over rigid concrete substrates only.
3. Concrete 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. Ensure the floor is porous to enable strong adhesion of the primer and floor leveller.
4. Prime the floor using Lanko 124 Ultraprime.
5. Apply the Lanko 133 Pro Level within 24 hours of the application of Lanko 124.
6. Mix Lanko 133 Pro Level as per instructions on the data sheet. Instead of using neat water for the mix, gauge Lanko 753 Acrylic Additive 1 part with 2 parts water, and use this to prepare the mix. Use approx 5L of this mix per 20Kg bag.
7. Apply the Lanko 133 Pro Level over the floor, ensuring it achieves a minimum of 3mm thickness.
8. Lanko 133 Pro Level will achieve initial set in approximately 60 -75 minutes, and may be walked on in approximately 3-5 hours.
9. Lanko 133 Pro Level must cure 16-24 hours, after which time it is ready to accept any compatible floor coverings.

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 Davco'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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