

RAPID SETTING SELF LEVELLING UNDERLAYMENT

FOR INTERNAL APPLICATIONS ONLY

134

PRO LEVEL EXPRESS

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

LANKO

DESCRIPTION:

Lanko 134 Pro Level Express is a fast setting cement based, internal, self levelling, high strength underlayment designed for levelling floors. Lanko 134 Pro Level Express can be feather-edged and has properties similar to that of concrete. Depending on the application, Lanko 134 Pro Level Express can minimise trowelling. It requires the addition of only potable water to achieve a highly fluid consistency producing a smooth, level, and hard surface. Dries rapidly, even at very low temperatures.

USES:

Lanko 134 Pro Level Express is used to repair, fill or level surfaces in new construction or for corrective work. It is suitable for internal applications. Lanko 134 Pro Level Express is used as a subfloor underlayment prior to installation of carpet, tiles or other floor covering systems. Being a rapid set product, it can be walked on after 1-2 hours, and can receive carpet or ceramic floor coverings within 4-6 hours of installation. Commercial vinyl installations can be undertaken in as little as 16-24 hours. Lanko 134 Pro Level Express is not a wearing surface and must be protected with a compatible topping, floor covering or coating.

TEST DATA

Test Method	Criterion	Typical Test Result
ASTM C191		
Initial Set Time		30 - 50 mins
Final Set Time		40 - 70 mins
Reflow Time		15 - 20 mins
Foot Trafficable		1.5 - 2 hours
Ready to receive carpet or ceramic floor coverings		4 - 6 hours
Ready to receive vinyl or timber floor coverings		16 - 24 hours
ASTM C109 AS/NZS 2350.11 - 1997		
Compressive Strength, MPa	1 day	16.5 MPa
	3 days	20.0 MPa
	7 days	26.5 MPa
	28 days	34.2 MPa
<i>Values presented are typical and not necessarily referenced to create specifications.</i>		

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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 or Lanko 222 Hydrostatic Waterproofer. 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 Lanko 731 or Lanko 712 Concrete Repair Mortar.
- Any construction joints in the underlying sub-floor should be carried through the Lanko 134 Pro Level Express, to avoid cracking.

SURFACE PRIMING:

- Priming is crucial prior to the application of Lanko 134 Pro Level Express. It is designed to improve adhesion and greatly reduce pinholing in the finished floor and extend reflow times.
- 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 134 Pro Level Express 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 4.5 – 5L of potable water to a clean bucket, and then slowly add the 20kg bag of Lanko 134 Pro Level Express. Less water may be required in colder temperatures. Mix for no less than 3 minutes, and long enough to provide a smooth, lump free, flowable blend. If foaming and streakiness appear on top of the mixture, Lanko 134 Pro Level Express is over-watered, and should not be placed on the substrate. More powder may be added immediately whilst mixing to achieve proper consistency.
- Because Lanko 134 Pro Level Express is a fast setting product, do not mix more material than can be placed in 10 minutes.
- For large areas requiring fills in excess of 10mm, washed, surface dry, graded gravel can be added to the mix. The gravel should be graded from 3 to 8mm, and can be added at up to 20kg of gravel per 20kg bag of Lanko 134 Pro Level Express. Mix the Lanko 134 first, and then add the dry aggregate to the mixed material. Reduce the water required if the aggregate is

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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 of Lanko 134 may be required, if aggregate is added to the mix.

- When being used under high loads, Lanko 134 Pro Level Express must be gauged with a mixture of 1 part Lanko 753 Acrylic Additive to 2 parts water. Add approximately 5 – 5.5L of this mix to a 20kg bag.
- Clean mixers and tools 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:

- Place Lanko 134 Pro Level Express 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 134 Pro Level Express soon after mixing. It will achieve initial set in approximately 40 - 60 minutes, and may be walked on in approximately 1.5 - 2 hours.
- Lanko 134 Pro Level Express must cure 4 - 6 hours before any floor coverings are installed. Allow 16 - 24 hours prior to installing commercial vinyl over Lanko 134.
- Although Lanko 134 Pro Level Express is recommended for internal use only, it is important to protect the product during placement and whilst curing from direct sunlight and winds. This is to prevent rapid hydration/cure or desiccation (excessive moisture loss).
- Lanko 134 Pro Level Express may be layered up to 15mm in thickness without aggregate. Additional layers 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.
- Refer to mixing instructions for preparation of mixes using aggregate.

COVERAGE:

One 20kg bag of Lanko 134 Pro Level Express will yield approximately 0.0115m^3 , and cover approximately:

- 13m^2 at 1mm thickness.
- 6.5m^2 at 2mm thickness.
- 4.33m^2 at 3mm thickness

CLEAN-UP INSTRUCTIONS:

- Clean mixing and application equipment with water immediately following use.
- Remove splatter or spills with water before material sets.
- Lanko 134 Pro Level Express contains cementitious materials, and if allowed to dry, removal becomes extremely difficult.

PRECAUTIONS:

- Ensure all surface preparation and priming instructions are followed precisely.
- Construction joints in the sub-floor must be detailed through Lanko 134 Pro Level Express to prevent cracking.
- Lanko 134 Pro Level Express 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 134 Pro Level Express when temperatures are below 5°C or above 35°C . Also, do not apply if temperatures are expected to reach these levels for at least 24 hours after application.
- Do not apply Lanko 134 Pro Level Express over frozen or frost filled surfaces.
- Wherever possible, 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 134 Pro Level Express is not

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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 or vibration, 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.

- Where Lanko 134 Pro Level Express will be exposed to high loads, always use with the addition of Lanko 753 acrylic additive gauged 1:2 with clean water (1 Part Lanko 753 : 2 parts water).
- If unsure about suitability in certain installations, contact the Lanko Technical Advisory Line for guidance.

PACKAGING:

Lanko 134 Pro Level Express is available in 20kg polylined bags.

FLOOR COVERINGS:

As a general guide, the surface finish of Lanko 134 Pro Level Express is not dissimilar to concrete. Any adhesives used to bond subsequent floor coverings that are compatible with concrete will be compatible with Lanko 134 Pro Level Express. Strictly follow the floor covering adhesive manufacturers instructions.

SHELF LIFE / STORAGE:

- **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 134 Pro Level Express is alkali in nature, which can cause dermatitis. Thus, when using Lanko 134 Pro Level Express, 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 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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