



LANKO 134

PRO LEVEL EXPRESS

**RAPID SETTING SELF LEVELLING
UNDERLAYMENT FOR INTERNAL APPLICATIONS ONLY**

WHERE TO USE

Davco Lanko 134 Pro Level Express is a fast setting cement based, internal, self levelling, high strength underlayment designed for levelling floors. Davco Lanko 134 Pro Level Express can be feather-edged and has properties similar to that of concrete. Depending on the application, Davco 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

Commercial internal applications. Davco 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. Davco Lanko 134 Pro Level Express is not a wearing surface and must be protected with a compatible topping, floor covering or coating.

PRODUCT INFORMATION

Coverage

20kg bag of Davco Lanko 134 Pro Level Express will yield approximately 0.0115m³ and cover approximately:

13m² at 1mm thickness

6.5m² at 2mm thickness

4.33m² at 3mm thickness

Drying Time

Foot trafficable in 1.5 hours - 2 hours

FEATURES & BENEFITS

- Fast-setting
- Can be feather-edged
- Dries rapidly, even at very low temperatures
- Ideal for repair, fill or level surfaces in new construction or corrective work

PACKAGING

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



**MADE IN
AUSTRALIA**

TECHNICAL

TECHNICAL DATA	LANKO 134
Appearance	
Shelf life when stored unopened in elevated, cool, dry location	6 months

Values presented are typical and not necessarily referenced to create specifications. All measurements are taken at 20°C and 50% relative humidity. Specifications vary according to site conditions and should be taken as a guide only.



Davco products manufactured in Australia are produced in accordance with quality management systems certified as complying with AS/NZS ISO 9001:2008.

Quality
ISO 9001
SAI GLOBAL

TEST DATA	CRITERION	TYPICAL TEST RESULT
Test method: ASTM C191		
Initial set time		30 - 50 mins
Final set time		40 - 70 mins
Reflow time at 20°C		15 - 20 mins
Foot trafficable at 20°C		1.5 - 2 hours
Ready to receive carpet or cermaic coverings		4 - 6 hours
Ready to receive vinyl or timber floor coverings		16 - 24 hours
Test method: ASTM C109 AS/NZS 2350.11-1997		
Compressive strength	1 day	16.5 MPa
	3 days	20.0 MPa
	7 days	26.5 MPa
	28 days	34.2 MPa

- Deeply contaminated substrates must be abraded to a clean, sound surface or prepared with the use of Davco Ultrabond. Contact ParexGroup for further details
- Patch large cracks and holes with a Davco Lanko 731 or Davco 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

PRIMER PREPARATION

- It is crucial to prime the surface with a suitable Davco primer prior to the application of Davco Lanko 134 Pro Level Express. It is designed to improve adhesion, extend reflow and greatly reduce pinholing in the finished floor
- Porous concrete surfaces must be primed with Davco Lanko 124 Ultraprime. Use Davco Lanko 124 Ultraprime directly from the container - do not dilute
- Under hot, windy conditions (Temperatures 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 should be performed in all cases, to assure the suitability of the product for the intended use. This should include the floor finishing / covering

DIRECTIONS FOR USE

- A test should be undertaken in all cases to ensure suitability

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 Davco Lanko 531 Epoxy Moisture Barrier or Davco Lanko 222 Hydrostatic Waterproof. Refer to datasheet for specific instructions
- Non-porous surfaces, such as power trowelled or steel floated concrete, must be primed with Davco Lanko 531 Epoxy Moisture Barrier or Davco Ultrabond. Alternatively, they can be acid etched or mechanically abraded

MIX PREPARATION

Mix Ratio

SITUATION / REQUIREMENT	MIX REQUIREMENTS PER 20KG
General applications	4.5 – 5L of clean, potable water

Mix Process

1. Electric stirring is required as it produces a much smoother mix. The most efficient method of mixing Davco Lanko 134 Pro Level Express is by using a 1/2 inch or 12 mm heavy-duty electric drill (maximum 650 rpm). Concrete mixers or hand mixing are not suitable methods.
2. Add 4.5 – 5L of potable water to a clean bucket, and then slowly add the 20kg bag of Davco 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 overwatered, and should not be placed on the substrate. More powder may be added immediately whilst mixing to achieve proper consistency.
3. Clean mixers and tools thoroughly after each batch to avoid material build up.

Note: 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

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 Davco Lanko 134 Pro Level Express. Mix the Davco Lanko 134 Pro Level Express 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 of Davco Lanko 134 Pro Level Express may be required, if aggregate is added to the mix.

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

- For any additional mixing instructions not covered above, contact ParexGroup.

APPLICATION

1. Place Davco 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.
2. Place Davco 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.
3. Davco 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.

4. Although Davco 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).
5. Davco 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. Davco Lanko 124 Ultraprime must be used if more than 24 hours passes before the new material is applied.
6. Refer to mixing instructions for preparation of mixes using aggregate.

High Stress Areas

Davco Lanko 134 Pro Level Express 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 subfloors subject to movement or vibration, over heated sub-floors. Instead, we recommend the use of Davco Lanko 134 Pro Level Express for these applications. Refer to the Davco Lanko 134 Pro Level Express datasheet for specific instructions.

Where Davco 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).

Floor Coverings

As a general guide, the surface finish of Davco 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 Davco Lanko 134 Pro Level Express. Strictly follow the floor covering adhesive manufacturers instructions.

If unsure about suitability in certain installations, contact ParexGroup for guidance.

Clean-up & Return to Service

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

PRECAUTIONS

Safety

- SDS is available from www.davcoaustralia.com.au
- It is recommended that applicators wear PVC or similar gloves and safety goggles while handling this product
- Keep out of reach of children. If eye contact occurs, rinse with cool water
- If ingested get immediate medical assistance

General

- Do not apply or mix 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.
- Ensure all surface preparation, testing and mixing instructions are followed precisely
- Do not add cement, lime, gypsum, plaster, bonding agents, aggregates or other materials except where specified on the Technical Data Sheet
- Do not apply Davco 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.

Specific

- Construction joints in the sub-floor must be detailed through Davco Lanko 134 Pro Level Express to prevent cracking
- Davco Lanko 134 Pro Level Express should not be over-watered, over-mixed, or remixed with additional water. Any material over 10 minutes old should be discarded and not used
- Do not use Davco Lanko 134 Pro Level Express over a slab with a high moisture content or that is subject to rising damp unless a suitable epoxy barrier is used prior
- When Davco Lanko 134 Pro Level Express is to be used in areas of high stress or under exacting conditions, such as installation over timber floors, metal decks and over heated sub-floors, special instructions are generally required.
- For applications not mentioned on the data sheet, contact Sika Australia

Legal Notes

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.