



LANKO 133

PRO FLOOR LEVELLER

SURFACE PREPARATION

SELF LEVELLING UNDERLAYMENT FOR INTERNAL AND EXTERNAL APPLICATIONS



WHERE TO USE

Davco Lanko 133 Pro Floor Leveller is a cement-based, self-levelling, high strength underlayment designed for levelling internal and external floors. Lanko 133 can be feather-edged and has properties similar to that of concrete. Depending on the application, Lanko 133 can either eliminate or minimise trowelling. It requires the addition of only potable water to achieve a highly fluid consistency producing a smooth, level and hard surface. Lanko 133 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

Commercial internal and external floor applications. Suitable for use in wet areas. Not suitable for use in permanently immersed situations. Lanko 133 is used to repair, fill or level surfaces in new construction or for corrective work. Lanko 133 is used as a sub-floor 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 16-18 hours of installation. Lanko 133 is not a wearing surface and must be protected with a compatible topping, floor covering or coating.

PRODUCT INFORMATION

Coverage

20kg bag of Lanko 133 Pro Floor Leveller will yield approximately 0.0115m³ and cover approximately:

13m² at 1mm thickness

6.5m² at 2mm thickness

4.33m² at 3mm thickness

Application

1-25mm thickness

Set Time

Foot trafficable in 4hrs



MADE IN AUSTRALIA

FEATURES & BENEFITS

- Very high bond strength
- Suitable for wet areas
- Very high early strength
- Ideal for domestic, light and heavy commercial applications

PACKAGING

Available in a 20kg bag

TECHNICAL

TECHNICAL DATA	LANKO 133
Appearance	Grey powder
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.



ParexGroup 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		60-75 minutes
Final set time		75-90 minutes
Reflow time at 20°C		10-15 minutes
Foot trafficable at 20°C		3-5 hours
Ready to receive floor coverings		16-18 hours
Test method: ASTM C109 AS/NZS 2350.11-1997		
Compressive strength	1 day	14-16 MPa
	3 days	20-22 MPa
	7 days	22-25 MPa
	28 days	25-30MPa
Test method: AS4992:2004		
Tensile adhesion pull up strength, MPa	1 day	1.5 MPa
	2 days	2-2.5 MPa
	3 days	2.5+ MPa
	Final	3+ 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 suitable Davco concrete repair mortar
- Any construction joints in the underlying sub-floor should be carried through the Lanko 133 to avoid cracking

PRIMER PREPARATION

- It is crucial to prime the surface with a suitable Davco primer prior to the application of Lanko 133. 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 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
- Non-porous surfaces, such as powder trowelled or steel floated concrete, must be primed with Lanko 531 Epoxy Moisture Barrier
- 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
- This should include the floor covering

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
- 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

MIX PREPARATION

Mix Ratio

SITUATION / REQUIREMENT	MIX REQUIREMENTS PER 20KG
General applications	4.2-4.6L of clean, potable water

- Electric stirring is required as it produces a much smoother mix. The most efficient method of mixing Lanko 133 is by using a 1/2 inch or 12mm heavy duty electric drill
- If pumping, mix in an appropriate pre-pump mixer
- Do not mix more material than can be used in 10-15 minutes

Mix Process

1. Electric stirring is required as it produces a much smoother mix. The most efficient method of mixing Lanko 133 is by using a 1/2 inch or 12mm heavy duty electric drill. Concrete mixers or hand mixing are not suitable methods
2. Add approximately 4.2-4.6L of clean, potable water to a clean bucket and then slowly add the 20kg bag of Lanko 133. Less water may be required for colder temperatures.
2. Mix for no less than 2 minutes, and long enough to provide a smooth, lump free, flowable blend.
3. Mixing drill should be set to maximum 600rpm.

Note: If foaming and streakiness appear on top of the mixture, Lanko 133 is over-watered, and should not be placed on the substrate. More powder may be added immediately whilst mixing to achieve proper consistency

High Stress Areas

When being used in high stress areas, Lanko 133 must be gauged with a mixture of 1 part Davco Lanko 753 Acrylic Additive to 2 parts water. Add approximately 5L of this mix to a 20kg bag.

For Large Areas

Large areas requiring fills between 25-100mm, add washed, surface dry, graded gravel to the mix. If the gravel is 3-8mm, add 10kg of gravel per bag of Lanko 133. If the gravel is 8-12mm, add 20kg of gravel per bag of Lanko 133. Mix the Lanko 133 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. A smoothing layer of Davco Lanko 134 Pro Level Express will be required if aggregate is used. 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.

Pumping

If pumping mix in an appropriate pre-pump mixer. Do not mix more material than can be used in 10-15 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 ParexGroup.

APPLICATION

1. Pour Lanko 133 on to the primed surface.
2. Move it into approximate position with an underlayment spreader and allow the material to seek its own level.
3. Lanko 133 must cure 16-18 hours at 20°C before any floor coverings are installed.

4. When additional thickness is required, Lanko 133 may be layered up to 25mm 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.
5. In external applications, special care needs to be taken to protect the product during placement and whilst curing. The product needs to be protected from direct sunlight and high winds to prevent rapid hydration / cure or desiccation (excessive loss of moisture). This is particularly important when laying thicknesses in excess of 10mm.

High Stress Areas

For applications of Lanko 133 over heated sub-floors (eg: under floor heating systems and radiant heated floors) always use with the addition of Lanko 753, gauged 1:2 with clean water (1 part Lanko 753 to 2 parts water)

For applications of Lanko 133 in wet areas (eg: shower recess floors) always use with the addition of Lanko 753, gauged 1:2 with clean water (1 part Lanko 753 to 2 parts water)

Clean-up & Return to Service

- Clean mixing and application equipment with water immediately following use
- Remove splatter or spills with water before material sets
- Lanko 133 contains cementitious materials and if allowed to dry, removal becomes extremely difficult

PRECAUTIONS

Safety

- SDS is available from www.parexdavco.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 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 of application
- Do not apply Lanko 133 over frozen or frost filled surfaces
- Do not use Lanko 133 in applications where it be subject to permanent immersion
- Ensure all surface preparation, testing and mixing instructions are followed precisely
- Lanko 133 should not be over-watered, over-mixed or remixed with additional water. Any material over 20 minutes old should be discarded and not used

- Do not use Lanko 133 over a slab with a high moisture content or that is subject to rising damp unless a suitable epoxy barrier is used prior
- Movement joints in the substrate must be carried through the Lanko 133
- Do not add cement, lime, gypsum, plaster, bonding agents, aggregates or other materials except where specified on the Technical Data Sheet
- When Lanko 133 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. Contact ParexGroup for further details
- Floor coverings - As a general guide the surface finish of Lanko 133 is not dissimilar to concrete. Any adhesives used to bond subsequent floor coverings that are compatible with concrete will be compatible with Lanko 133. Strictly follow the floor covering adhesive manufacturers' instructions.



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ParexGroup reserves the right to inspect any alleged failure at our cost. No responsibility will be accepted unless a representative of ParexGroup is afforded the opportunity to inspect any alleged failure.

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