

PRODUCT DATA SHEET

LANKO® 173 Floor Leveller

A cement-based highly fluid self levelling underlayment for levelling concrete substrates.

DESCRIPTION

- LANKO® 173 Floor Leveller is a cement-based high flow self levelling underlayment designed to correct and repair levels in concrete prior to subsequent floor coverings.
- LANKO® 173 Floor Leveller is formulated for substrate levelling applications from 1-25mm pour depths.
- LANKO® 173 Floor Leveller can be applied to concrete substrate both internally and externally. When used externally or in wet areas ensure suitable waterproof covering is applied, ie waterproofing membrane and tile finish.
- LANKO® 173 Floor Leveller can be extended for deep applications between 10-100mm with a suitable aggregate or pea gravel 3-8mm in size.
- LANKO® 173 Floor Leveller is ideal for repairing small holes, uneven concrete. It requires the addition of only cool potable water to achieve a highly fluid consistency producing a smooth, level, and hard surface.
- LANKO® 173 Floor Leveller 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

- LANKO® 173 Floor Leveller is used to repair dry areas of structurally sound concrete subfloors.
- LANKO® 173 Floor Leveller is suitable for internal and externally
- LANKO® 173 Floor Leveller is used as a subfloor 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 hours of installation, refer wait time prior to application of floor coverings.
- LANKO® 173 Floor Leveller is not suitable for use as a wearing surface or to remain exposed to traffic, use dry and cured cover with a suitable floor covering.

CHARACTERISTICS / ADVANTAGES

- Used as subfloor underlayment prior to subsequent finishing coverings
- Compatible with many common used adhesives
- Useful for repair of structurally sound concrete subfloors
- Ideal for repairing small holes, and uneven concrete surfaces
- Highly fluid for level finishes
- Very low VOC

PRODUCT INFORMATION

Packaging	20kg Paper bags
Shelf life	Up to 12 months from date of manufacture if unopened. High humidity reduces shelf life.
Storage conditions	Store above ground out of direct sunlight in dry cool conditions.
Density	1.28per kg/m ³

APPLICATION INFORMATION

Mixing Ratio	4 - 4.5 Litres water per 20kg bag										
Consumption	1 bag will cover approximately 12m ² at 1mm of thickness.										
Layer Thickness	<p>LANKO® 173 Floor Leveller is designed for used for applications between 1-25mm.</p> <p>Should deeper pours be needed from 25-100mm, pour at a maximum 25mm deep increments, allowing to dry and re-prime between pours</p> <p>Extended applications with aggregate for application from 25-100mm</p> <p>LANKO® 173 Floor Leveller can be extended with 3-8mm aggregate or pea gravel for pour depths of 10-100mm.</p> <p>Maximum layer thickness when applied shall be no greater than 100mm when extended.</p>										
Pot Life	10 minutes										
Waiting time to overcoating	<p>Drying time is dependent on jobsite temperature, humidity, installation thickness and floor covering type.</p> <table><tr><th>Floor Covering</th><th>Minimum Wait Time</th></tr><tr><td>Ceramic Tiles</td><td>4 hours</td></tr><tr><td>Carpet, & floating floors</td><td>24 hours</td></tr><tr><td>Vinyl & Vinyl Plank flooring</td><td>48 hours</td></tr><tr><td>Timber Flooring (direct bonding)</td><td>72 hours</td></tr></table> <p>Wait times are measured at 23°C and 50% relative humidity in laboratory conditions, cool and cold temperatures will extended drying times. use wait times as a guide only.</p>	Floor Covering	Minimum Wait Time	Ceramic Tiles	4 hours	Carpet, & floating floors	24 hours	Vinyl & Vinyl Plank flooring	48 hours	Timber Flooring (direct bonding)	72 hours
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BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

LIMITATIONS OF USE

- Do not use LANKO® 173 Floor Leveller over a concrete with a high moisture content or that is subject to rising damp. Unless a suitable Sika Moisture Barrier is used prior, refer to the substrate preparation section in this document.
- Do not apply LANKO® 173 Floor Leveller over construction or movement joints. Ensure construction and movement joints are covered to prevent application over these joints.
- Davco Lanko 173 Floor Leveller should not be overwatered, over mixed, or re mixed with additional water. Any material over 10 minutes old should be discarded and not used.
- LANKO® 173 Floor Leveller is designed to be covered by a finishing flooring material within 72 hours or

once cured and dry. Cover LANKO® 173 Floor Leveller with a suitable flooring material as soon as applicable to prevent damage or wear to the surface.

- LANKO® 173 Floor Leveller is only suitable over concrete substrates. For applications over flexible substrates such as framed floors use a suitable flexible Sika floor leveller, refer to Sika website for more information: [Sika Australia](#).
- When used externally or in wet areas ensure the LANKO® 173 Floor Leveller is protected by a suitable sika waterproofing system ie waterproofing membrane and tile finishes.

IMPORTANT CONSIDERATIONS

- 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 LANKO® 173 Floor Leveller over frozen or frost filled surfaces
- Do not mix or apply LANKO® 173 Floor Leveller when temperatures are below 5°C or above 35°C. Also, do

not apply if temperatures are expected to reach these levels within 24 hours after application.

- Wherever possible, test areas are recommended, to ensure the suitability of the product for the intended use. This should include the floor finishing/covering.

Floor Coverings

As a general guide, the surface finish of LANKO® 173 Floor Leveller is not dissimilar to concrete. Any adhesives used to bond subsequent floor coverings that are compatible with concrete will be compatible with LANKO® 173 Floor Leveller. Strictly follow the floor covering adhesive manufacturer's instructions.

ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety related data.

APPLICATION INSTRUCTIONS

EQUIPMENT

- High speed mixing drill (650rpm) with stirrer attachment or Multi-bag Mixing Station or suitable levelling pump machine
- Large mixing pail 20+ litres
- Flat trowel or long handled applicator/trowel

SUBSTRATE QUALITY

- 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 AS1884-2021. 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 suitable Sika Moisture Barrier. Refer to priming instructions.
- Highly burnished, glossy finished concrete shall be mechanically prepared prior to application
- Deeply contaminated substrates must be mechanically prepared prior to application.

SUBSTRATE PREPARATION

Substrates can be pre prepared and checked in accordance with AS 1884:2021 prior to application. All Substrates shall be primed prior to application. Priming is crucial prior to the application of LANKO® 173 Floor Leveller. It is designed to improve adhesion and greatly reduce pinholing in the finished floor.

Porous Priming - Lanko 124 UltraaPrime

Concrete shall accept water penetration, should the concrete not accept water mechanical preparation shall be required to open the pores of the concrete.

- Porous concrete shall be primed with Lanko 124 UltraaPrime (do not dilute, apply neat to the surface).
- Porous primer note: 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 Priming - SikaFloor-14 Prep n Prime

Existing sound and firmly fixed ceramic tiles can be primed with SikaFloor-14 Prep n Prime.

High Moisture Content Concrete

Concrete that has high moisture content (greater to 75% relative humidity) shall be pre-treated with an appropriate Sika moisture barrier and then a non porous primer.

Suitable Sika Moisture Barriers

- Sikalastic Moisture Seal
- SikaFloor 158W Fast Barrier

Once Sika Moisture barrier are installed apply a single coat of SikaFloor-14 Prep N Prime over the moisture barrier and allow to dry prior to application of LANKO® 173 Floor Leveller.

Refer to the complete user instructions on the product data sheet of associated products prior to use.

MIXING

1. Electric stirring is required as it produces a much smoother mix. The most efficient method of mixing LANKO® 173 Floor Leveller 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 for mixing.
2. Add between 4 – 4.5L of clean, cool potable water to a clean bucket, and then slowly add the 20kg bag of Davco Lanko 173 Floor Leveller. Mix for no less than 2 minutes, and long enough to provide a smooth, lump free, flowable blend. If foaming and streakiness appear on top of the mixture, LANKO® 173 Floor Leveller is over-watered, and should not be placed on the substrate.
3. For large areas requiring fills between 25 and 100mm, add washed, surface dry, graded gravel to the mix. If the gravel is 3 to 8mm, add 10kg of gravel per bag of LANKO® 173 Floor Leveller. If the gravel is 8 to 12mm, add 20kg of gravel per bag of LANKO® 173 Floor Leveller. Mix the Lanko 173 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 may be required, if aggregate is added to the mix.
4. If pumping, mix in an appropriate pre-pump mixer. Do not mix more material than can be used in 10 minutes. Mix speeds must not be too high; otherwise they will cause aeration.
5. Clean mixers and pumps thoroughly after each batch to avoid material build up.

APPLICATION

1. Pump or hand pour LANKO® 173 Floor Leveller on to the primed surface. Move it into approximate position with a trowel or spreader, and allow the material to seek its own level.
2. Place LANKO® 173 Floor Leveller soon after mixing. It

will achieve initial set in approximately 2 hours, and may be walked on in approximately 2 - 3 hours.

3. LANKO® 173 Floor Leveller must cure at least 4 hours before tiling; at least 16 – 24 hours before carpeting and at least 24 – 36 hours before laying vinyl. Although LANKO® 173 Floor Leveller can be used externally, it is important to protect the product during placement and whilst curing from direct sunlight and winds. This is to prevent flash set /cure and desiccation (excessive moisture loss). This is particularly important when laying thicknesses in excess of 10mm.
4. When applying the LANKO® 173 Floor Leveller in multiple layers, the additional layers can be applied as soon as the first layer becomes walkable. Re apply primer prior to applying additional layers.

CLEANING OF TOOLS

Tool and equipment can be cleaned prior to materials drying.

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.

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Product Data Sheet

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August 2025, Version 01.01

020815030010000342

LANKO173FloorLeveller-en-AULANKO-(08-2025)-1-1.pdf

