

## PRODUCT DATA SHEET

# LANKO® 145 Floor Leveller

AN ECONOMICAL HIGH BUILD LEVELLING & SMOOTHING COMPOUND FOR INTERNAL USE

## DESCRIPTION

LANKO® 145 Floor Leveller is an economical flooring leveller underlayment designed for high build applications from 3-75mm in a single pour.

LANKO® 145 Floor Leveller is suitable for single bag mixing, multi bag mixing and pump machine applications.

## USES

Recommended underlayment for all commercial & residential floor coverings.

- Levelling of uneven concrete from 3mm up to 75mm thickness.
- Suitable for new or old internal concrete substrates.
- Can be used in combination with Davco and Lanko ranges of installation materials.

## CHARACTERISTICS / ADVANTAGES

- Very Low VOC (~1 gram per litre)
- Non-combustible
- High strength
- Economical levelling solution
- Simply mix & apply - No slaking or re-mixing required
- Good pot life and working time - slow setting
- Pump or manual application
- Application build 3mm-75mm in a single pour

## PRODUCT INFORMATION

<b>Packaging</b>	20kg Paper bags
<b>Shelf life</b>	Unopened bags can be stored for up to 12 months in a cool, dry and weatherproof environment.
<b>Storage conditions</b>	Bags must be stored off the floor in dry cool conditions out of direct sunlight. Avoid sitting bags in direct sunlight prior to application.
<b>Colour</b>	Grey powder
<b>Volatile organic compound (VOC) content</b>	1 gram per Litre

## TECHNICAL INFORMATION

<b>Compressive Strength</b>	1 day cure – 14MPa to 16 MPa 28 day cure – 25MPa to 30MPa
<b>Tensile strength</b>	28 day cure > 5 MPa
<b>Water absorption</b>	Porous

# SYSTEM INFORMATION

## System structure

Porous Concrete	Non-porous substrate
Lanko® 124 Ultraprime	SikaFloor-14 Prep n Prime
Lanko® 145 Floor Leveller	Lanko® 145 Floor Leveller
Subsequent suitable materials	Subsequent suitable materials

For high moisture (RH) in concrete, Sika® Moisture Barrier System may be considered;

1. Sikafloor®-158 W Fast Barrier
2. Sikafloor®-14 Prep N Prime
3. LANKO® 145 Floor Leveller

Contact your local Sika® office for further information.

# APPLICATION INFORMATION

Yield	12 L = 4m <sup>2</sup> at 3mm
Layer Thickness	3 - 75mm lifts
Ambient Air Temperature	>10°C - <35°C
Mixing Ratio	3.5 - 3.8 litres of clean cool water per 20kg bag
Pot Life	20 minutes at 23°C & 50% relative humidity.
Waiting time to overcoating	<ul style="list-style-type: none"><li>▪ Allow 24+ hours at 23°C prior to the application of floor coverings.</li><li>▪ Drying is dependent on thickness of application, temperature, air flow &amp; relative humidity. Increased air flow will help with drying speeds in cooler temperatures.</li></ul> Testing moisture content before applying floor coverings is recommended. Note: Freshly applied LANKO® 145 Floor Leveller must be protected from damp, condensation and water while curing for at least 24 hours.

## 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 install LANKO® 145 Floor Leveller over particleboard, hardwood floors, parquet floors or metal.
- Do not mix or apply LANKO® 145 Floor Leveller in temperatures below 10°C and above 35°C and under hot and windy conditions.
- Keep product cool prior to mixing and do not leave bags in direct sun for extended periods.
- Protect from hot or strong winds and extremes of temperature for 12hrs after being applied to avoid rapid moisture loss leading to cracking or crazing.
- All construction/expansion joints in existing concrete must be reflected through Lanko® product as soon as possible to do so.
- Not recommended as a trafficable surface.
- Do not use on sloped surfaces that require drainage or in wet areas.
- Do not use in exterior applications.

## 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

### SUBSTRATE QUALITY / PRE-TREATMENT

Concrete floors should be fully cured, structurally sound, with a minimum pull off strength of 1.5 MPa, clean, dry, and free of surface contaminants and dust for Eg. Concrete must be porous and accept water penetration. Test by lightly sprinkling water on various areas of the substrate. If water penetrates, then a good bond with a selected primer can be achieved. If water beads and fails to be absorbed by the concrete surface contaminants are present then loss of adhesion may occur. Contaminates that are present should be mechanically removed before installation. Concrete must be free of efflorescence and not subject to hydrostatic pressure. If the concrete substrate has efflorescence or high moisture (RH) Sika-floor® moisture barrier system may be considered (Sikafloor®-158 W Fast Barrier + Sikafloor® Prep 'N' Prime + LANKO® 145 Floor Leveller.

Contact your local Sika® office for further information.

## PRIMING

### Porous Priming

Lanko® 124 Ultraprime applied neat (undiluted) to surfaces that are to be levelled.

Note: Correct amount of priming liquid should always be applied to the prepared substrate giving good penetration and film build.

Thin applications may result in pinholing or debonding levelling compound from the substrate.

Do Not Allow primer to pool while drying.

On particularly porous (mechanically prepared) surfaces or where the initial prime coat absorbs immediately a second coat is recommended. Average dry time ~20–30 min (per coat) When applying exterior under hot, windy conditions (Temperatures above 30°C), it is essential to wet down any concrete surfaces with clean water prior to priming, so 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 pools evident prior to application of the Lanko® 124 Ultraprime.

### Non-porous priming

Sikafloor®-14 Prep N Prime – undiluted (Neat)

Note: When applying primer to Non-porous surface use a paint roller and apply one thin even coat. Sikafloor®-14 Prep N Prime Must Be Completely Dry (50-60 min+) prior to applying Lanko® products. Chosen primer should completely dry prior to the application of Lanko® Levelling Systems. > Chosen primer should completely dry prior to the application of Lanko® Levelling Systems. > For further detailed information (Product Data Sheet) regarding chosen primer please go to [sika.com.au](http://sika.com.au) or contact Sika® Australia 1300 22 33 48.

## MIXING

- Mix the entire 20kg bag of LANKO® 145 Floor Leveller with 3.5 - 3.8 Litres of clean, cool water.
- Slowly add powder to the water while mixing thoroughly for 2 minutes to a lumpfree consistency.
- Not mixing for the recommended time or additional water may result in product irregularities and possible product failure.

## APPLICATION

Pour or Pump LANKO® 145 Floor Leveller, then spread with a long handled gauged spreader to heights as required. For touch-ups, use a flat steel trowel. If vinyls are being installed a skim coat of Sika-floor® Level Pro Finish(smoothing compound) may be required. Areas of application must have fresh airflow to assist with product hydration and drying. Closed off rooms with no fresh air will retard the curing process and possibly lead to product failure.

### Second applications:

If required, a second coat may be applied as soon as the first coat is firm enough to walk on without causing excessive damage, approximately 2 hours @ 23°C but no later than 4 hours @ 23°C. This installation method is referred to as "wet-on-wet" and higher temperatures/air flow will mean this "wet-on-wet" second application time window is reduced, therefore the second coat should always be applied as soon as possible.

Note: If the first application is allowed to dry past 4 hours at 23°C, re-priming & subsequent applications should be applied the next day - Normal drying times apply (24+ hours @ 23°C).

## CLEANING OF TOOLS

Cleaning of tools and equipment can be done with water prior to the product 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.

Sika Australia Pty Limited

ABN 12 001 342 329

[aus.sika.com](http://aus.sika.com)

Tel: 1300 22 33 48



Product Data Sheet

LANKO® 145 Floor Leveller

September 2024, Version 01.01

020815030010000505

LANKO145FloorLeveller-en-AULANKO-(09-2024)-1-1.pdf