

# FEATHERING MORTAR

## RAPID SETTING, POLYMER MODIFIED, CEMENT BASED

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

# LANKO

#### DESCRIPTION:

LANKO 135 Feather Edge is a highly polymer modified fast setting cementitious feathering mortar, for use on irregular/uneven concrete floors, prior to the application of floor coverings, such as tiles, carpet, vinyl etc. It requires the addition of only potable water to achieve a high fluid consistency producing a smooth, level, and hard surface. Lanko 135 Feather Edge can be applied in multiple layers with each layer being no more than 10mm thick.

#### USES:

Lanko 135 Feather Edge is designed for thin layer patching of vertical, horizontal and overhead applications. It is particularly useful for ramping previously patched/levelled floors into doorways, walkways, etc. It can be applied to a variety of different substrates. Lanko 135 Feather Edge is suitable for repairing honeycomb concrete, as well as cracks and pinholes. It can be used for skim coating over particle board and plywood flooring to fill in grooves, gouges, and level up joints. Lanko 135 Feather Edge is compatible with commonly used adhesives and normally can receive floor coverings within 1 - 2 hours of installation when applied as a skim coat. Lanko 135 Feather Edge is not a wearing surface and must be protected with a compatible topping, floor covering or coating.

#### TEST DATA:

##### Properties:

<b>Work Time</b>	5 - 10 mins
<b>Initial Set at 20°C</b>	25-30 mins at a 3mm thickness
<b>Foot Trafficable at 20°C</b>	1-2 hrs at 3mm thickness ~20 mins for a skimcoat
<b>Ready to Receive Floor Coverings at 20°C</b>	4-6 hrs at 3mm thickness 1-2 hrs for a skimcoat
<b>Pot Life at 20°C</b>	30 mins

#### 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. 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 712 Concrete Repair Mortar.
- Any construction joints in the underlying sub-floor should be carried through the Lanko 135 Feather Edge, to avoid cracking.

#### SURFACE PRIMING:

- Porous concrete surfaces should be primed with Lanko 124 Ultraprime. Use Lanko 124 directly from the container – do not dilute.
- Under hot, windy conditions (Temp above 30°C), it is recommended to wet down any concrete slabs with clean water prior to priming so that the primer does not flash dry. Whilst 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 just prior to application of the primer.

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- Extremely porous concrete slabs should be wet down with water, as per instructions for hot, windy conditions, to prevent flash drying 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 135 Feather Edge 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.
- The mixing ratio is 1kg of Lanko 135 Feather Edge to 475 – 525ml of water.
- Add 475 – 525ml of potable water, and then slowly add 1kg of the Lanko 135 Feather Edge powder. Mix for no less than 1 minute to provide a smooth, lump free consistency.
- Clean mixers thoroughly after each batch to avoid material build up.
- Lanko 135 Feather Edge is a rapid setting product. Do not mix up more product than can be placed within 10 minutes.
- For any additional mixing instructions not covered above, contact the Lanko Technical Advisory Line.

## APPLICATION TECHNIQUES:

- Place the mixed product onto the prepared substrate using a flat trowel. Use only a minimum of working to spread to the desired thickness and contour.
- Allow the product to set up a little before smoothing out to the desired finish. For a very smooth finish, it is desirable to use a steel trowel.
- If the mix begins to stiffen in the bucket, do not try and reconstitute the mix by adding more water, simply discard the product and make a new mix.
- Additional layers can be applied over existing layers, provided the previous layer has attained suitable hardness for placement. Prime with Lanko 124

Ultraprime if more than 24 hours passes before the new material is applied.

- Lanko 135 Feather Edge is trafficable after approximately 1 – 2 hours at 20°C and is suitable for the application of floor coverings after approximately 4 - 6 hours at 20°C (when applied at 3mm thickness). These set/cure times can vary depending upon the application thickness and the site temperature conditions.
- For a skim coating, the Lanko 135 Feather Edge will be trafficable in as little as 20 minutes.

## COVERAGE:

1kg of Lanko 135 Feather Edge will cover approximately:

- 4m<sup>2</sup> at skim coat thickness.
- 1m<sup>2</sup> at 1mm thickness.

## CLEAN-UP INSTRUCTIONS:

- Clean mixing and application equipment with water immediately following use.
- Remove splatter or spills with water before material sets.
- Lanko 135 Feather Edge 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 the Lanko 135 Feather Edge to prevent cracking.
- Lanko 135 Feather Edge 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 to Lanko 135 Feather Edge. If unsure, contact the Lanko Technical Advisory Line.
- Do not mix or apply Lanko 135 Feather Edge 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.

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## FEATHER EDGE

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- Do not apply Lanko 135 Feather Edge 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:

- When Lanko 135 Feather Edge is to be used in areas of high stress or under exacting conditions, special instructions are generally required. Please phone the Lanko Technical Advisory Line for specific instructions:

#### PACKAGING:

10kg of powder packaged individually into 1kg plastic bags inside a 10L mixing container.

#### FLOOR COVERINGS:

As a general guide, the surface finish of Lanko 135 Feather Edge is not dissimilar to concrete. Any adhesives used to bond subsequent floor coverings, which are compatible with concrete, will be compatible with it.

#### 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

#### ENVIRONMENTAL & SAFETY PRECAUTIONS:

- Being cement based, Lanko 135 Feather Edge is alkali in nature, which can cause dermatitis. Thus, when using this product, 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](http://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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