

WATERPROOFING MEMBRANE

LIGHT TRAFFICABLE FOR FLOORS AND ROOF TOPS

438

DURATREAD

C O N C R E T E R E P A I R & P R O T E C T I O N

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DESCRIPTION:

Lanko 438 Duratread is a water based, high build trafficable membrane coating for the sealing and long-term protection of floor surfaces. The Lanko 438 Duratread system combines flexibility, considerable cohesive strength and water resistance. Lanko 438 Duratread has the ability to absorb considerable substrate movement and to bridge developing cracks. Lanko 438 Duratread will provide a seamless, easily cleaned, hard wearing, non-slip floor surface. Available in two standard colours – Nulab Grey and Light Terracotta. Also available in a tint base allowing tinting using paint universal colourants. Additional colours can be arranged by special request, depending upon the volume.

USES:

- Lanko 438 Duratread can be applied to all common building materials such as concrete, bitumen, steel, masonry, brick and wood etc.
- Lanko 438 Duratread is ideal for use over roof tops, balconies, workshops, pedestrian ramps, shower floors, swimming pool surrounds, diving boards and boat decks etc.
- Low maintenance – Lanko 438 Duratread is seamless and easy to clean.
- With excellent water resistance, Lanko 438 Duratread is ideal for external applications.
- Adheres to all commonly used building and construction materials.
- Trafficable with a non-slip surface (Refer to Precautions).
- Water based.
- No application hazards.
- Non-flammable.
- Flexible.
- High scrub and wash resistant.

TEST DATA:

Properties:

Touch Dry (At 20°C):	2 hours
Overcoat Time (At 20°C):	6 hours
Full Cure (At 20°C):	7 days
Resistance to water:	Excellent
Resistance to fungi:	Excellent
Resistance to acids:	Limited
Resistance to alkali:	Good
Resistance to solvent:	Poor
Elongation %	
<i>At Room Temperature</i>	
3 days	115%
7 days	75%
14 days	105%
Elongation %	
<i>Immersed</i>	
7 days	54%
14 days	90%
28 days	140%

SURFACE PREPARATION:

General

- All surfaces must be structurally sound and free from dirt, dust, grease, paint, wax, oil and any other loose contaminants. Clean all surfaces with a commercial grade detergent or degreaser.
- Badly contaminated surfaces or surfaces with moss and lichen on them should be sterilised with a fungicidal wash, then washed off with clean water.
- Bituminous surfaces should be cleaned and any loose blistering material removed.
- Prior to application, remove all sharp protrusions, which may pierce the membrane.

Concrete

- All new concrete slabs must be allowed to cure for at least 6 weeks.
- Old concrete must be cleaned with a strong commercial grade detergent or degreaser. Thoroughly wash off all residue with clean water. Allow the surface to dry for at least 24 hours.
- Any concrete sub-floor with a high moisture content or subject to rising damp first needs an application of Lanko 531 Epoxy Moisture Barrier (refer to Lanko 531 Epoxy Moisture Barrier datasheet).

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- Porous concrete surfaces must be primed with Lanko 124 Ultraprime.
- 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.
- Surface faults such as blisters, holes and cracks should also be cleaned out, then repaired with a suitable filler such as Lanko 101 Smoothing Putty or Lanko 113 Finishcoat.

Render

- Newly rendered surfaces must be allowed to cure for at least 7 days.

Lightweight Blocks

- Apply 2 coats of Lanko 124 Ultraprime prior to application of membrane.

Metal Surfaces

- All metal surfaces must be free of rust – wire brush if necessary.
- Prime metal surfaces with a suitable etching primer.

Cracks/Joints - NOT subject to movement.

- Small hairline cracks, up to 0.5mm wide, may be filled by the first application of Lanko 438 Duratread.
- For cracks/joints wider than 0.5mm, two methods of treatment can be used:
 - A flexible joint filler, such as Davco Davsil (Silicone Sealant) or Lanko 603 Sodaflex (Polyurethane Sealant) should be applied to fill the crack prior to the application of Lanko 438 Duratread.
 - The joint can be routed out to form a 'V' shaped groove with a hand or power chisel, to a depth and width of approximately 25mm. Dampen the

chiselled out crack with clean water and whilst still damp, fill the joint with Lanko 731 repair mortar, and finish flush with the concrete surface.

Cracks/Joints - subject to movement.

- All cracks/joints subject to movement, irrespective of their width, must be treated.
- For cracks/joints less than 2mm in width, fill with Davsil or Lanko 603 Sodaflex. For wider joints (>2mm up to 10mm), Abelrod (polyethylene backer rod) can be used to fill the body of the joint, after which the joint is filled flush with Davsil or Lanko 603 Sodaflex. After the sealant has cured, a 50mm wide polyethylene/ polypropylene tape should then be placed over the crack, ensuring it adheres to the surface.
- For treatment of cracks/joints greater than 10mm in width, contact your ParexDavco office for further detailed information.

Building Boards

- Standard wall/floor building boards must be firmly fixed in accordance with manufacturer's instructions and appropriate Australian Standards. Such boards include plasterboard; fibre cement sheeting; compressed fibre cement sheeting; marine grade ply and wet area composition board.
- Screw or nail heads must be sealed with epoxy.
- All sheeting joints less than 1mm wide need to be covered with 50mm wide polyethylene/polypropylene tape.
- All sheeting joints wider than 1mm need to be filled with Davsil or Lanko 603 Sodaflex, then covered with 50mm wide polyethylene/ polypropylene tape.
- Prime all building boards using Dampflex Primer.

SURFACE PRIMING:

- Priming is crucial prior to the application of Lanko 438 Duratread. It is designed to improve adhesion and greatly reduce pinholing in the finished floor.
- Porous concrete surfaces must be primed with Lanko 124 Ultraprime. Refer to the Lanko 124 Ultraprime

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datasheet for instructions for use over highly porous slabs and/or if being used in hot windy conditions.

- Apply the primer liberally, using a brush or short nap roller, but do not allow it to pond on the surface
- Allow the primer to dry thoroughly before use of Lanko 438 Duratread – this may take 30 to 60 minutes depending on ambient conditions

APPLICATION TECHNIQUES:

- A cove is recommended where all wall/floor junctions occur.
- It is recommended to use a flexible sealant such as Davsil or Lanko 603 Sodaflex to create a coved corner. Allow to cure for 24 hours before further work. Always ensure the membrane is applied at a minimum of 50mm above the top edge of the coving, and any gaps or irregularities in the corners are completely filled.
- Use a thick brush or roller to apply one coat of Lanko 438 Duratread on the area to be sealed, and allow to dry for 2-3 hours at 20°C.
- Apply a second coat at a 90° angle to the previous coat. Allow to dry for 24 hours at 20°C before subjecting the surface to any light traffic. Lanko 438 Duratread will take 7 days to achieve full cure at 20°C, before allowing it to be exposed to full traffic conditions.
- If required to be used under heavier than normal foot traffic, it is recommended that Lanko 438 Duratread have a non-woven polyester reinforcing mat incorporated during application.
- Follow Steps 1 - 3 but do not allow to dry. Do not try to apply more than 2m² of Lanko 438 Duratread at a time before rolling in the matting, as premature drying may occur and result in inadequate wetting of the mat.
- Place pre-cut, manageable lengths of matting and roll immediately into the wet Lanko 438 Duratread.
- Apply a second coat over the mat ensuring that all of it is completely covered and filled. Allow to dry for 4 hours at 20°C.

- Finally, apply a third coat of Lanko 438 Duratread at a 90° angle to the previous coat and allow to dry for 24 hours at 20°C, ensuring any pinholes are covered in this final application. Lanko 438 Duratread will take 7 days to achieve full cure at 20°C, before allowing it to be exposed to full traffic conditions.
- After 5 – 6 days curing, prior to putting the Lanko 438 Duratread coated surface into service, it is recommended that it be cleaned down with a soft bristle brush and clean warm water. Allow 24 hours to dry.

COVERAGE:

- *Internal/Covered Installations* - 1m² per litre to achieve a dry film thickness of 500 microns.
- *External / Exposed Installations* - 0.5m² per litre to achieve a dry film thickness of 1000 microns.
- Always apply as two or more coats, to facilitate good through dry of the membrane.

CLEAN-UP INSTRUCTIONS:

- Clean up brushes with water immediately after use.
- Clean Lanko 438 Duratread with a jet of water or by brushing with water and detergent.

PRECAUTIONS:

- Ensure all surface preparation and priming instructions are followed precisely.
- Lanko 438 Duratread is not recommended for use in areas of water immersion like swimming pools, spas etc.
- Even though Lanko 438 Duratread has a non-slip finish, any substrate if waterlogged, will have some degree of slipperiness. Care should be taken at all times to keep traffic areas free from pooling or ponding water by providing appropriate falls in the surface.
- Lanko 438 Duratread will take 7 days to achieve full cure at 20°C, before allowing it to be exposed to full traffic conditions.

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- Lanko 438 Duratread is not suitable for use in areas subject to vehicular traffic, or where high point loadings may be expected, such as trolleys, stools, chairs or stiletto type footwear.
- Do not apply Lanko 438 Duratread when temperatures are below 5°C or above 35°C.
- Do not apply Lanko 438 Duratread over waterlogged, frozen or frost filled surfaces.

PACKAGING:

20 litre plastic pail. Keep tightly lidded at all times.

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 buckets, if stored as specified above

SAFETY:

- When using Lanko 438 Duratread, 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 or visit our website on www.lanko.com.au.

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.

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 and AS3740:2004.

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.

PAREX DAVCO

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