

# EPOXY MOISTURE BARRIER PRIMER FOR NON-POROUS SURFACES AND FOR DAMP CONCRETE

**531**  
**EPOXY MOISTURE  
BARRIER**

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

**LANKO**

## DESCRIPTION:

Lanko 531 Epoxy Moisture Barrier is a two part water based epoxy barrier and coating system. When mixed together, the two components chemically cure to form a water barrier, and primer system.

## USES:

- Lanko 531 Epoxy Moisture Barrier is used for providing a barrier coating for concrete which has a moisture content exceeding that specified in AS1884 – 1985 (maximum moisture content 5.5% or 70% humidity).

- Lanko 531 Epoxy Moisture Barrier is suitable as a barrier coating over fresh concrete prior to laying floor coverings, when sufficient time is not available to allow the concrete to cure.
- Lanko 531 Epoxy Moisture Barrier can be used as a primer coat for non-porous surfaces, such as power float or steel trowel concrete, terazzo, ceramic and quarry tiles.
- Lanko 531 Epoxy Moisture Barrier is suitable for curing water seepage problems in lift wells, tunnels, retaining walls, below grade structures, etc.

## TEST DATA

	Part A	Part B	Combined
Appearance	White Liquid	White Liquid	White Liquid
Gloss Level (cured)			Semi-gloss
Solids	44%	58%	51%
Viscosity (Brookfield)	18,000cps	8,050cps	16,800 cps
Mix Ratio	Equal parts by Volume		
Recoat Time	2 hours @ 25°C / 50% RH		
Full Cure	7 days @ 25°C / 50% RH		
Pot Life	2 hours @ 25°C / 50% RH 1 hour @ 35°C / 50% RH		
<b>Water Vapour Transmission ASTM E96-94 AS/NZS 4548 5 – 1999</b>			
Measured dry film thickness	280 (Microns)		
Vapour Transmission	10.4 (Rate of composite, G/M <sup>2</sup> /24 hour)		
Vapour Diffusion Coefficient of film	1.6 x 10 <sup>-5</sup> (cm <sup>2</sup> /sec)		
Diffusion Air Layer Thickness	16370 (μ)		
Equivalent Air Lay Thickness	4.5 (S <sub>d</sub> ), M		
Estimated vapour transmission rate for unsupported film	11.3 (g / m <sup>2</sup> / 24 hour)		
Permeance of film	4.6 x 10 <sup>-6</sup> (g / Pa s m <sup>2</sup> )		
<b>Potable Water Test AS/NZS 4020:1999 Exposure of 15000mm<sup>2</sup> per litre</b>			
Taste of water extract	Passed		
Appearance of water extract	Passed		
Growth of Aquatic Micro-organisms	Passed		
Cytotoxic Activity of water extract	Passed		
Mytagonic Activity of water extract	Passed		

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## SURFACE PREPARATION:

- Surfaces must be 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 free of laitance, loose or deteriorated concrete, curing or form release agents, and other 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 subsequent floor covering, to avoid cracking.

## MIXING INSTRUCTIONS:

- Stir each component of the system, with mechanical stirrer prior to mixing.
- Measure equal volumes of each component into a clean container and mix for a minimum of 2 minutes or until a uniform mix is obtained. The most efficient method of mixing Lanko 531 Epoxy Moisture Barrier is by using a  $\frac{1}{2}$  inch or 12 mm heavy duty electric drill (maximum 650 rpm). Hand mixing is not suitable.
- Do not mix more material than can be applied within the pot life of the mixture. The pot life can change with variations in the ambient temperature.
- Do not add water to Lanko 531 Epoxy Moisture Barrier as it can effect the performance of the product.
- Clean mixer blades thoroughly after each batch to avoid material build up.
- For any additional mixing instructions, not covered above, contact the Lanko Technical Advisory Line.

## APPLICATION TECHNIQUES:

- Apply with a brush, long nap roller or conventional spray.
- Ensure Lanko 531 Epoxy Moisture Barrier is applied evenly at the recommended coverage rates.
- To ensure no pinholes result, apply two coats of Lanko 531 Epoxy Moisture Barrier. This is particularly important when using beneath one of

Lanko's floor levelling compounds. Apply the first coat, then allow 2 hours to cure. The second coat should be applied at right angles to the first. It is essential that at least two coats are applied to the surface.

- The system should be allowed to cure for a minimum of 24 hours at 25°C/50% RH before overcoating. Allow longer for lower temperatures or higher humidity. However subsequent floor-coverings must be installed within 72 hours to ensure good adhesion.
- Under hot windy conditions (Temp above 30°C), it is recommended the area to be primed is protected to ensure the primer does not flash dry.

## COVERAGE:

- Smooth Surface
  - first coat at 3m<sup>2</sup> / litre
  - second coat at 5m<sup>2</sup> / litre
- Rough Surface
  - First coat at 2.5m<sup>2</sup> / litre
  - Second coat at 4m<sup>2</sup> / litre

## CLEAN-UP INSTRUCTIONS:

- Clean mixing and application equipment with water immediately following use.
- Remove splatter or spills with water before material sets.

## PRECAUTIONS:

- Ensure all surface preparation and priming instructions are followed precisely.
- Construction joints in the sub-floor must be detailed through the Lanko 531 Epoxy Moisture Barrier and the subsequent floor covering to prevent cracking.
- Do not over-water, or over-mix, Lanko 531 Epoxy Moisture Barrier.
- Do not add aggregates or other materials to Lanko 531 Epoxy Moisture Barrier. If unsure, contact the Lanko Technical Advisory Line.
- Do not mix or apply Lanko 531 Epoxy Moisture Barrier when ambient and substrate temperatures are below 10°C or above 35°C. Also, do not apply if temperatures are expected to

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reach these levels for at least 24 hours after application.

- Do not apply Lanko 531 Epoxy Moisture Barrier 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.
- **Do not leave for longer than 72 hours before covering.** Longer cure time can result in poor adhesion. This is especially important when covering with levellers or other cement based systems.

#### PACKAGING:

4L Kits (2L Pt A, 2L Pt B)

20L Kits (10L Pt A, 10L Pt B).

All product packed in plastic pails.

#### SHELF LIFE / STORAGE:

- Storage: must be stored in a cool, dry elevated place and protected from high humidity.
- Product should not be stored at temperatures below 0°C.
- Shelf Life: For the unmixed, individual components, up to 12 months in unopened containers, if stored as specified above

#### SAFETY:

- Being a water based product, Lanko 531 Epoxy Moisture Barrier is non-hazardous. However, when using Lanko 531 Epoxy Moisture Barrier, 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 Advice Line on 1800 653 347 or visit our website at [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 ParexDavco'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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