

| Introduction

Alka 310 is a high performance, hand-applied, low VOC, moisture-curing single-pack elastomeric polyurethane waterproofing membrane. Alka 310 is directly foot-trafficable.

Alka 310 is AS/NZS 4858:2004 and AS4654.1:2012 approved.

| Usages.

It is designed for waterproofing diverse parts of a building including balconies, terraces, podium decks, wet areas, roofs, ...

| Benefits

- Monolithic membrane – no lap, weld or seams
- Low VOC, complies with Green Star requirements
- Low smell
- UV resistance
- Quick tack-free surface
- High resistance to puncture
- High resistance to fouling
- High resistance to stagnant water
- High elongation, >300%
- No reinforcement required
- Excellent crack bridging capability
- Elastomeric behaviour: remains flexible at low temperatures
- Single-pack: no mixing, ready to use
- Available in grey and black
- Self-leveling, semi self-leveling, and anti-root versions available

| How to Apply

Alka 310 is supplied in ready-to-use pails.

Preparation:

Surface must be clean, sound, smooth and dust-free as well as oil-free.

A compatible primer, such as Alka 305 should be applied to ensure the adhesion of the membrane to the substrate as well as preventing outgassing from the concrete.

In the case of high porosity, wet concrete (humidity >5%) or in any doubt, it is recommended to use a hydro-epoxy primer. Compatibility of the primer with the membrane must be checked prior to application.

Application:

Alka 310 can be applied with a brush or a roller to the desired thickness.

2 coats of 0.8 L/m² (1.04 kg/m²) are required to achieve a dry film thickness (DFT) of 1.2 mm.

For UV resistance, coating thickness must abide by numbers given on this Technical Datasheet. A thinner coating will result in premature degradation.

Application temperature of Alka 310 is >5°C to 35°C. Alka 310 can be subject to light foot traffic after 24 hours. Vehicle traffic is not permitted on Alka 310 without the application of a top coat.

Where extended UV resistance is required, it is recommended that Alka 310 should be coated with an Alka topcoat system such as Alka 210 Polyaspartic. Check with your Alka Representative the compatibility before application.

Recoating instructions:

In normal conditions, Alka 310 can be recoated with another layer of Alka 310 after one night and within 2 days. In case of rain or if the recoating interval was exceeded, come back to the substrate by grinding. Contact your Alka Coatings representative with any questions.

Coverage

2 coats of a minimum of 0.8L/m² (1.04 kg/m²) each are required to achieve a 1.2 mm dry film thickness (DFT).

Limitations

Do not install without the use of a primer.

Do not under apply coating as this will impact UV resistance and cause premature degradation. It is highly recommended to use a UV topcoat in areas which have consistent high ground temperatures.

Clean-up

Reusable tools should be cleaned carefully with Xylene or MEK before curing.

Shelf life

Shelf life of sealed Alka 310 in its original container is 9 months. Once opened, use entire contents immediately.

Always store closed containers in cool, ventilated, and dry location, away from heat and oxidizing agents. Do not store in direct sunlight or in temperatures below 5°C or above 35°C.

Safety

Please refer to the Material Safety Data Sheet (MSDS) for personal protection, proper handling and storage.

| Important Notes

- Do not add any water.
- Do not use any alcohol, such as methylated spirit, as dilutant.
- Do not apply Alka 310 on any substrates where significant vapor pressure may occur.
- Always ensure good ventilation when using Alka 310 in a confined space.
- Freshly applied Alka 310 should be protected from damp, condensation and water for at least 24 hours.
- If in doubt about the use or application of this product, or further information please contact our Alka Technical Department.
- Avoid contact with skin and eyes.
- Wear protective gloves and eye protection during work.
- If skin contact occurs, wash skin thoroughly.
- If in eyes, hold eyes open, flood with warm water and seek medical attention without delay.
- Avoid contact with foodstuffs and utensils.

| Notice to Reader

Alka Coating make no representation as to the completeness and accuracy of the information contained on this Technical Data Sheet. It is the user's obligation to evaluate and use this data, and to comply with all relevant Commonwealth, State and Local Government laws and regulations.

Alka Coatings shall not be responsible for loss, damage or injury resulting from reliance upon or failure to adhere to any recommendations contained herein, from abnormal use of the material, or from any hazard inherent in the nature of the material.

Alka 310

one-component waterproofing membrane system



A full Material Safety Data Sheet is available from Alka on request.

	Alka 310	Test Method
Composition	Single-pack moisture curing Polyurethane	-
Density (liquid) (g/cm ³)	1.25 - 1.35	ASTM D1475-13
Density (cured) (g/cm ³)	1.4 – 1.45	AS 1683.4
Service temperature (°C)	-20 to +80	-
Curing time (hours)	Cured overnight	-
Shelf life (months)	9	-
*Viscosity @ 30 RPM (cPs)	10,000 – 18,000	-
Non volatiles (%)	81	ASTM D2369-10
VOC content (g/L)	250	ASTM D2369-10
Odour	Mild odour	-
Tensile strength (MPa)	6	AS 1683.11
Elongation (%)	>300	AS 1683.11
Hardness (Shore A)	70	AS 1683.15.2
Angle tear strength (kN/m)	20	AS 1683.12
Peel adhesion (with Eraprime LV452) (N)	> 100 (concrete)	ASTM C794
UV resistance	2000 hrs accelerated testing, no reduction in elongation, no visible cracks or blistering. Chalking evident.	-
Re-coating interval	Maximum 2 days after application	-
Recommended substrate temperature (°C)	+5 to +35	-
Recommended substrate moisture (%)	Up to 5	-
Recommended relative humidity (%)	Between 20 and 90	-

*Viscosity measurements are conducted on a Brookfield LVDV-II+P using Spindle #4 @ 25°C.

All products are subject to Alka terms and conditions. Read the full version on our website prior to any purchase.

| Contact us

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