



Aquepoxy Concrete Floor Finish / Sealer
The Durable Alternative

High Performance

Aquepoxy is a two-pack, waterborne, Epoxy finish specifically designed for application to interior concrete floors where demanding Occupational Health & Safety (OH&S) performance properties and slip resistance are required.

Aquepoxy incorporates a special curing mechanism that provides a tough cross-linked finish with superior hardness and wearing characteristics, together with resistance to oil, petrol and grease stains, solvent and hot tyres.

Aquepoxy generally offers a greater durability performance than solvent based acrylic sealers and as a water based product, it can be used where many solvent based sealers can't due to odour and flammability concerns. Offers low VOC emissions and complies with Green Star rating requirements.

Aquepoxy comes in a range of 12 practical colours plus a 'clear', which not only provides a tough, low-maintenance finish, but also improves the aesthetic appeal and cleaning capabilities in any flooring situation.

Aquepoxy adds value to any concrete floor and has a fifteen year unblemished record.

Features & Benefits

Water Based	Low VOC. Certified with Green Building Council of Australia
Slip Resistant	Certified with CSIRO from R9 to 12 Wet/Oil pendulum test
Excellent adhesion	In aggressive environments
Low odour	Minimal odour providing user friendly environment
Stain/Chemical resistant	Unaffected by oil, petrol, lubricants & chemicals dramatically reducing cleaning times Tough, abrasion resistant finish giving long life protection and wear resistance to concrete floors in aggressive environments
Durable	
Ease of application	Washes up in water

Aquepoxy Colour Range

Available as a Low Sheen Finish in a range of 12 Attractive Colours plus a Linewhite* or Clear* (In Gloss Finish).



* Surcharge applies

Typical Applications

- Multi-level / Basement Car Parks
- Distribution Centres, Aircraft Hangers, Factory Floors & Warehouses
- Auto & Engineering Workshops
- Stock & Plant Rooms
- Food preparation areas
- Public Galleries / Pavilions
- Restaurants / Shops / Residential environments
- Winery, Animal Shelter and Hospitals
- DIY Garage Floors

Limitations

Aquepoxy acrylic sealer is not recommended for use in the following situations:

- Do not apply when ambient / surface temperature is below 10°C.
- Do not apply when exposure to rain is likely within six hours of exterior application.
- Not recommended for continuous immersion in water (eg: swimming pools, spa baths, etc).
- Not usually recommended for exterior application. Consult with Cavco for exceptions.
- Should not be applied over existing coatings or finish that show any sign of peeling or flaking. In any event, adhesion to an existing finish should always be tested prior to application of Aquepoxy sealer.

The colours shown on this card are as close as possible to the actual colour. Slight variations may occur due to use of this product on different surfaces and at different gloss levels. The prospective user should always determine the suitability of the colour before adopting on a commercial scale.

Application Guide

Preparation

Surface Preparation

The concrete surface should be sound and free of dirt, dust, oil and grease. Aquepoxy can be applied over deeply penetrated oil and grease stains as long as surface oil and grease have been removed completely. High pressure water and mild detergent (sugar soap) is highly recommended prior to any application. Acid etching is not necessary, nor recommended, as this may affect the curing of the Aquepoxy if the acid is not neutralized properly. Also, variations in surface sheen can occur due to uneven acid etching.

Aquepoxy will adhere well to most concrete surfaces with compressive strength up to 35 MPa. On a pre-sealed surface or where a curing membrane may have been used to increase concrete hardness/strength, adhesion must always be tested on a small area (samples provided) prior to commencing application.

Please Note: If a previous coating is flaking or peeling, this must be removed completely before application of Aquepoxy sealer.

Aquepoxy can be applied to a slightly damp surface (recently washed) but not when saturated (mop up ponded water before application).

Safety Instructions

Provide adequate ventilation during application. Aquepoxy Concrete Floor Finish is non-toxic and non-hazardous. Prolonged skin contact may cause irritation to some individuals. Wash soiled clothing and skin with soap and water before material dries.

Roller Application

Use a 15-20mm nap Lambs Wool Roller and Tray with open wire grill insert. Apply a generous coat of sealer to achieve specified coating thickness (See 'Coverage')

Use criss-cross roller action and avoid rolling back and forth in one direction as this will create a 'tram line' effect. Empty tray completely before refilling with a fresh mix of Aquepoxy. This will ensure older mix does not accumulate in the tray and set before being applied.

Airless Spray Application

For major works and large floor areas, airless application by approved applicators is recommended. Alternatively, experienced Aquepoxy applicators can apply by roller using a "direct to floor" technique developed by Cavco with significant reduction in application time compared to using a roller and tray.

Coverage

A standard 25L kit of Aquepoxy will cover approximately 100 square metres for a two coat application. A minimum of two coats of Aquepoxy is required to achieve good wear resistance and a high quality finish. The average coverage for one coat is 10sqm/L of mixed coating.

The first coat should be applied at 8-10sqm/L depending on porosity/density of the concrete surface. For the second coat or direct to a sealed surface, aim for coverage of approximately 10-12sqm/L.

WHEN QUALITY COUNTS – AUSTRALIAN OWNED, AUSTRALIAN MADE



Want it to STICK?

...Aquepoxy it!

Mixing Ratio

Please ensure that individual components are stored in a cool place before mixing.

Aquepoxy parts "A" and "B" should be mixed in the following ratio:

Part	Volume
Part A (Colour Component)	3 parts by Volume
Part B (Latex Component)	2 parts by Volume

NOTE To cover 40-50 square meters measure 3L of Aquepoxy Part "A" and 2L Aquepoxy Part "B" and mix thoroughly.

A spiral mixer head fitted to a variable speed electric drill gives good results. Mix thoroughly with a power mixer for a minimum of 10 minutes then allow to stand for a further 5 minutes before application.

When mixing a new batch, empty tray completely before refilling with a fresh mix of Aquepoxy.

This will ensure old mix does not accumulate in the tray and set before being applied. This is a good time to rinse the roller and tray to avoid Aquepoxy setting and creating application and cleaning problems later.

For R10-R12 slip resistance 'Skidbrake' additives can be used to enhance slip resistance ratings.

Recoat time and Curing Characteristics

Recoat time: Usually 4-12 hours (typically at 25°C and 50% RH). Second coat can be applied as soon as floor is tack free and can be walked on.

Air flow is imperative to ensure water evaporates before full cure achieved. Always provide air flow via doors being left open or an appropriate fan to assist air circulation for water to evaporate as required.

Type	Time
Hard Dry	12hrs
Foot Traffic	24hrs
Full Cure	5-7 days
Vehicle Traffic	5-7 Days

CAUTION The finished surface can usually accommodate some light vehicle traffic after 48 hours but under no circumstances should a vehicle be allowed to stand on the coated surface for extended periods within 5-7 days of application.

Wash Up

Clean equipment with warm water immediately after use. Aquepoxy will even cure under water so do not leave equipment to soak after use. Once Aquepoxy begins to cure, solubility in water reduces and equipment may need to be discarded.

Pack Size

25L Pack	
Part A (Colour component)	15L
Part B (Latex component)	10L
Approx. coverage: 100sqm / 2 coats	

10L Pack	
Part A (Colour component)	6L
Part B (Latex component)	4L
Approx. coverage: 45sqm / 2 coats	

Pot Life of Mixed Components

Generally two hours at 25°C shorter if ambient temperature is above 25°C. A 25L mix of Aquepoxy can usually be applied well within a two hour period of continuous application. However, mixed Aquepoxy should always be discarded if more than two hours old (ie: if application has been interrupted for any reason).

Storage

Aquepoxy stored as separate components in a cool place has a shelf life of 12 months. The Aquepoxy latex component (Part B) may crystallise (freeze) if stored at low temperatures for extended periods. Should this occur please contact your supplier for instructions.

Just look at what a difference Aquepoxy makes...



Concrete Floor before Aquepoxy



Concrete Floor after Aquepoxy

Aquepoxy Product Specifications

Property	Typical Values
Appearance	Coloured Liquid
Specific Gravity	1.20-1.24
Solids by Weight	45%-50%
Low VOC Emission	Less than 30 grams per litre
Odour	Very low odour
Flammability	Water based; Non-flammable
Surface Temperature	-20°C to 90°C
Shelf Life	12 months in original unopened container (separate components)

Aquepoxy Application Data

Minimum Application Temperature	10°C
Open Time (Pot Life)	Approx 2 hours at 25°C
Coverage	1 st coat: 8-10sqm per litre 2 nd coat: 10-12sqm per litre
Recoat / Drying Time	Recoat in 4-12 hours depending on conditions Hard overnight for light foot traffic Full cure 5-7 days (do not park vehicle traffic on surface for this period)
Dry Film Thickness (DFT) – Microns per coat	60-65 per coat
Skidbrake Additives: For R10 Rating	Incorporate 'Skidbrake Fine' at a rate of 2kgs per 25L of mixed product (final coat only)
For R11-R12 Rating	Aquepoxy Skidbrake Course (SBC) is broadcast over the 2 nd coat while wet, at the recommended levels: R11 Rating: Broadcast SBC at 0.8-1.0 kgs per 100sqm R12 Rating: Broadcast SBC at 3.0-3.5 kgs per 100sqm A 3 rd and final coat of Aquepoxy is then applied to seal the aggregate resulting in a durable, hard wearing, low skid surface

IMPORTANT NOTES

It is important to ensure that adequate air flow is present across the surface of the floor for at least two hours after application of Aquepoxy coatings. An industrial fan, air conditioning and/or open roller door will assist drying. With no air movement, a layer of water vapour can form on the surface during curing and can result in variation in sheen and poor cleanability as water will not completely evaporate from the sealer before full cure.

When working in confined areas (eg: closed offices, toilet blocks, stairwells etc.) a small domestic fan is usually adequate in most situations.

Ambient surface temperature must be above 10°C during application and curing of Aquepoxy. If below this temperature whilst drying, curing will be suppressed until the temperature rises above 10°C. Curing will slow down as the temperature drops to 10°C.



cavco products pty ltd

Cavco Products Pty Ltd
Factory 8 / 26 Longstaff Road
Bayswater Vic 3153

Ph: 1300 422 826
Fax: 03 9738 0996

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WATER BASED, LOW VOC, LOW ODOUR