

Aquepoxy[®] CONCRETE FLOOR FINISH

Description: A two pack water borne Epoxy finish for concrete floors where optimum resistance to the most aggressive environments is required.

The *Aquepoxy*[®] range of coatings is ideally suited for application in occupationally sensitive areas.

Uses: Typically for concrete floors where high wear is expected or resistance to an aggressive environment is required. Ideally suited to heavy traffic environments where motor vehicles and forklifts are operating.



Features:

- Available as a low sheen finish in a range of 12 attractive colors, including clear.
- Resists solvent, petrol, oil, marker pen and general stains.
- Occupationally safe and environmentally friendly.



Properties:

- **Hard wearing:** *Aquepoxy*[®] is a tough, abrasion resistant finish giving long-life protection and wear resistance to concrete floors in aggressive environments.
- **Slip resistant:** Slip control additives are incorporated to provide the optimum balance of abrasion and cleanability required for demanding applications.
- **Water based:** *Aquepoxy*[®] is a water borne system for low odour and ease of application. Washup with warm water and detergent.
- **Low odour:** Solvent-free and very low odour. Ideal for application in confined or occupationally sensitive areas.

High Profile Projects:

- ⇒ Victorian Archives Centre.
- ⇒ Telstra Installations and Corporate HQ - multi-level carpark, plantrooms etc .
- ⇒ Queens Theatre - Adelaide
- ⇒ Skygarden Complex - Sydney
- ⇒ Kmart - Garden Centres
- ⇒ Swinburne University - Prahran Campus, Victoria.
- ⇒ 120 Collins St.- Melbourne multi-level carpark etc.
- ⇒ Endeavour Hills Shopping Centre - Victoria
- ⇒ Mirvac - Beacon Cove Bayside residential estate.
- ⇒ Belmont Tafe - WA
- ⇒ Phillip Morris - Victoria

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Aquepoxy[®] CONCRETE FLOOR FINISH

Aquepoxy[®] Concrete Floor Finish is a two-pack Epoxy floor sealer, dispersed in water and free of volatile organic solvents. *Aquepoxy[®]* is supplied as a low sheen finish with a fine balance of texture and surface abrasion to give optimum slip resistance and cleanability. The *Aquepoxy[®]* range of coatings are solvent-free, non-flammable and provides high chemical, oil, petrol, water and abrasion resistance.

USES: *Aquepoxy[®]* is used on concrete floors where high wear is expected or resistance to an aggressive environment is required, for example: hospitals, food preparation areas, abattoirs, canneries, public buildings and other areas where low odour and solvent-free application is important. Ideally suited to heavy traffic areas including carparks, garages, loading bays, factory and warehouse environments where motor vehicles and forklifts are operating. Also suitable for wet areas, shower recesses, amenity blocks, etc.

Aquepoxy[®] is a waterborne, Epoxy finish with a unique balance of properties.

⇒ **Hard wearing:**

A tough, abrasion resistant finish giving long life protection and wear resistance to concrete floors in aggressive environments.

⇒ **Slip resistant:**

Slip control additives are incorporated to give the optimum balance of abrasion and cleanability required for demanding applications.

⇒ **Water-based:**

A waterborne system for low odour and ease of application. Ideal for application in confined or hazardous areas.

Aquepoxy[®] features include:



- Can be applied to a wide range of common building materials.
- Resists solvents, petrol, oil, marker pen and general staining.
- Available in a range of 10 attractive base colours, Clear Gloss and line marking colours, Line Yellow and Line White.
- Wash-up and clean equipment with water.
- Occupationally safe and environmentally friendly.

Aquepoxy[®] CONCRETE FLOOR FINISH

APPLICATION GUIDE

SURFACE PREPARATION:

The concrete surface should be sound and free of dirt, dust, oil and grease. If necessary, wash surface with mild detergent (sugar soap) and water. *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 detergent is highly recommended.

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 pre-coated concrete surfaces and concrete curing membranes. However, adhesion should always be tested on a small area (samples provided) prior to commencing application.

Caution: *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 i.e. Mop up ponded water before application.

MIXING:

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

Part "A" (coloured component) 3 parts by volume
Part "B" (latex component) 2 parts by volume

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.** Skidbrake additive can be added slowly when mixing parts "A" and "B"

When mixing a new batch, material remaining in the roller tray from the previous mix should be mixed in with the new mix. This is a good time to rinse the roller and tray to avoid *Aquepoxy[®]* setting and creating application and cleaning problems later.

CURING CHARACTERISTICS:

Recoat time: Usually 4 to 6 hours - or as soon as floor can be walked on.

- Hard dry: 12 hours Foot traffic: 24 hours
- Full cure: 3-7 days Vehicle traffic: 72 hours

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 (ie.. overnight) within 72 hours of application.

APPLICATION METHODS:

▪ **Roller Application:**

Use 20mm nap Viking or Nordan lambs wool roller and tray with open wire grill insert. Apply a generous coat of sealer to achieve specified coating thickness. 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. This will ensure old mix does not accumulate in the tray and set before being applied.

▪ **Spray Application:**

Use airless spray with 15-17µm nozzle tip. Flush equipment regularly with water.

Caution: Care must be taken to ensure that the specified film build and even coverage achieved.

IMPORTANT NOTE: Ensure adequate air flow during application and drying of *Aquepoxy*[®]

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 (closed offices, toilet blocks stairwells etc.) a small domestic fan is usually adequate in most situations.

Caution: Ambient and concrete 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.

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These suggestions and data are based on information we believe to be reliable. They are offered in good faith, but without guarantee, as conditions and methods of use of our products are beyond our control. We recommend that the prospective user determine the suitability of our materials and suggestions before adopting them on a commercial scale.

Aquepoxy[®] CONCRETE FLOOR FINISH

Supplied as a low sheen finish with a fine balance of texture and surface abrasion to give optimum slip resistance and cleanability. The *Aquepoxy*[®] range of coatings are low odour, non-flammable and classified as non-hazardous according to Worksafe Australia criteria. High chemical, oil, petrol, water and abrasion resistance.

USES: For floors etc. where high wear is expected or resistance to an aggressive environment is paramount. For example, hospitals, food preparation areas, abattoirs, canneries, public buildings and other areas where low odour and solvent-free application is important. Also suitable in shower recesses, toilet blocks, etc.

COLOURS: Available in 12 standard colours including clear - see our *Aquepoxy*[®] Colour Chart. Also available as a clear gloss finish or as special colours against suitable orders.

TYPICAL PROPERTIES of *Aquepoxy*[®] floor finish when mixed in recommended proportions.

<u>Property</u>	<u>Typical values</u>
▪ Appearance	Coloured liquid
▪ Specific gravity	1.20 - 1.24
▪ Solids by weight	45 - 50%
▪ UV Resistance	Good
▪ Flammability	Water based: non-flammable
▪ Service temperature	-20°C to 90°C
▪ Shelf life - as supplied	12 months in original unopened container.

APPLICATION DATA

▪ Application temperature	Minimum 10°C - 30°C
▪ Open time	Approx. 60 mins @ 25°C
▪ Curing time	Overnight for light traffic Full cure 5-7 days depending on conditions

SPREAD RATE for standard *Aquepoxy*[®] pack size (15lt Part "A" and 10lt Part "B")

For first coat: coverage = 200-250 square meters (8-10m²/lt) depending on density of concrete surface. For second coat or direct to a sealed surface: coverage = 250-300 square meters (10-12m²/lt).

ADVANTAGES

- Water based - can be applied to damp surfaces / washup with water
- Adhesion - excellent adhesion to concrete and most common building surfaces.
- Stain resistant - improved resistance to oil, petrol and mild chemical stains.
- Durable - good abrasion / wear resistance

LIMITATIONS

Aquepoxy[®] Concrete Floor Finish 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 four hours of exterior application.
- Not recommended for continuous immersion in water, eg. swimming pools, spa baths, etc.

PACKAGE SIZE 25 litre pack (standard):

Part "A" Colour component	15lt
Part "B" <i>Aquepoxy</i> [®] latex	10lt

SURFACE PREPARATION

- All surfaces should be free of rust, dust, soil and grease, and preferably vacuum cleaned.
- Minimum curing temperature is 10°C. If the temperature falls below this figure during the drying period, curing may be slowed or even temporarily suspended until the temperature rises.

MIXING RATIO / APPLICATION: to cover 40 to 50 square meters

Measure **3 litres** of *Aquepoxy*[®] Part "A" and **2 litres** *Aquepoxy*[®] Part "B" and mix thoroughly.

Apply by roller at a spread rate of 8-10m²/lt for the first coat, then 10-12m²/lt for subsequent coats. For spray application, thin 5lt of premixed sealer with up to 1lt water, then apply to cover areas as specified above.

POT LIFE / STORAGE

Two hours @ 25°C. Shorter at elevated temperatures; make sure that individual components are stored in a cool place before mixing.

WASH UP: Clean equipment with soap and water immediately after use. Once *Aquepoxy*[®] begins to cure, water solubility reduces and it will become necessary to use epoxy or lacquer thinner.

STORAGE: The *Aquepoxy*[®] latex component (Part B) may crystallise (freeze) if stored at low temperatures for extended periods. It is not able to react with the hardener in this condition, and should be restored to liquid form by heating to 50°C, e.g. by standing the container in a bucket of very hot water for a short time. Allow to cool to room temperature before mixing with pigmented hardener component.

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.

Uncured finish or separate components may irritate the eyes. in case of contact, flush eyes with water for 15 minutes. If irritation persists seek medical attention. For more information on health and safety, please consult our Material Safety Data Sheet.

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