

Protective Coatings



Aquapoxy Water Borne 2 Pack Epoxy

PDS Number: 02007.

Production Description

Aquapoxy Water Borne 2 Pack Epoxy is a hard wearing epoxy coating that is without the harsh chemical odours that are normally associated with solvent based epoxy coatings. Aquapoxy Water Borne 2 Pack Epoxy coating technology gives greater flexibility over a range of application that have caused restrictions in the past with the use of solvent based epoxy coatings. Suitable for areas that require high intensity cleaning cycles such as commercial kitchens and food processing plants, hospital and medical areas, public bathrooms and pedestrian traffic areas such as transport terminals and walkways. Aquapoxy Water Borne 2 Pack Epoxy is resistant to mould & mildew that cause bacterial contamination, providing a hardwearing coating that maintains a high air quality level with sanitation to interior environments.

Features

- Water Borne 2 pack Epoxy
- Water Based
- Chemical Resistant
- Superior Stain Resistance
- Hard Wearing coating
- Cross Link Technology
- Improved Substrate adhesion

Benefits

- Quick Drying
- Lower Odour than solvent based epoxy
- Clean up with water, no solvents needed
- Longer Recoating Lifecycle
- Shorter Recoating time between coats
- Abrasion resistant, easy to clean coating
- Moisture resistant.

Guarantee*

Omega Industries Aquapoxy Water Borne 2 Pack Epoxy is guaranteed against cracking, flaking, blistering or peeling when applied to a sound substrate that has been properly prepared and in accordance to the manufacturer's written specification and instructions. Omega Industries has been manufacturing quality coatings since 1987, in this time Omega Industries has built a profound reputation in the Surface Coatings Industry. Omega Industries has always strived to engineer products to suit the customer's needs and has in its fold experienced technicians with advanced technology to cater to all our customer requirements.

Quality Assured

Omega Industries manufacture all of their products in Australia since 1987 to suit the harsh Australian environment and conditions. Our manufacturing facility is certified with the following Quality Assurance organisations. Omega Industries is Australian Made & Australian Owned



Areas of Application

For use on flooring, walls, ceilings where a hard wearing, serviceable coating is required, without the harsh odour of conventional solvent based coatings. Aquapoxy Water Borne 2 Pack Epoxy is easy to apply to both horizontal and vertical surfaces and is quick drying. This coating can be used in areas that require constant cleaning and its superior durability and chemical resistance provides this. With the addition of Omega Slip Resistant Additive, the coating gives additional safety on wet areas. Slip resistance is recommended on sloping or steep surfaces

Application Method

Brush	Synthetic brushes such as Polyester, Nylon and Poly/nylon blends are best suited for this product.
Roller	Polyester, Lamb Wool, and Fibre Nap rollers are best suited for this product. Do not use foam or sponge type rollers. Regular Nap 10 to 12mm for smooth surfaces, Long nap 22 to 32mm for medium and course surfaces.
Conventional Spray	Check User Manual for set up requirements and if the unit is suitable to apply water based epoxy paint.
HVPL Spraying	Check User Manual for set up requirements and if the unit is suitable to apply water based epoxy paint.
Airless Spraying	Tip Size / Fine 0.43 to 0.53mm / Use a 60 Mesh Gun Filter / Adjust spray pressure to 550 – 690kPa for an even spray finish.

Technical Data

Colour	White, Black, Grey, Clear and Australian Standards AS2700 colours
Sheen Level	High Gloss (90% @ 60 head)
Solvent Resistance	Very Good
Toxicity	Dry film is not toxic
Flammability Flash Point	Non Flammable
Volume Solids	45% White (volume solid amount will increase depending on colour)
Thinning & Clean Up	Water Use up to 10% thinner depending on weather conditions
Theoretical Coverage*	6.5 sq. m.per litre at 100 µm DFT / Depends on surface profile
Wet Film Per Coat (microns)	Minimum - 95 / Maximum - 190 / Recommended - 155
Dry Film Per Coat (microns)	Minimum - 40 / Maximum - 80 / Recommended - 65
Drying Time (at 25c & RH 60%)**	Touch dry 1 - 2 hours ** / Recoat 4 - 6 hours ** (Dependant on ventilation)
Mixing Ratio	3:1 (By Volume)
Maturation Time	5 minutes (remix product after this time before application)
Pot Life (at 25c & RH 60%)	1 hours
Packs available	4 litre and 20 litre Packs

Surface Preparation

Remove all dust, dirt, mould, mildew, grease and oil and all surface contamination by cleaning and washing. Test previously painted surfaces for adhesion, and remove all peeling, flaking and poorly adhesive coatings. Treat all mould, mildew areas before coating. Rinse the surface well with fresh water to remove all cleaning agent residue and contamination. Fill all substrate defects with a water based compound and gap sealer and allow to dry. Sand the surface to provide a smooth finish and to assist with adhesion. Spot prime bare areas with APCO SurePrep Acrylic Sealer Primer Undercoat, and allow to dry. Allow new cement render, set plaster and masonry surface to cure for 28 days before painting, check pH level is lower than 10 before painting. Unpainted metal surfaces will require a suitable metal primer before the application of Omega Aquapoxy Water Borne 2 Pack Epoxy to provide adhesion and corrosion protection.

Note: If when rinsing the surface, the water beads on any area of the surface, then the surface has contamination and therefore the paint coating could lose adhesion and fail.

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Substrate Moisture / Condensation Test

Average drying times after water blasting will vary with season, climate, ventilation and location as well as the porosity of the surface. It is recommended to wait 3-7 days and then perform a condensation test to determine surface dryness. To do this, tape a small sheet of plastic (0.5m x 0.5m) to the surface by means of adhesive tape in the morning. Ensure that the seal is air-tight. Around mid-afternoon inspect the surface to see if any condensation has formed under the plastic sheet. Any condensation indicates that the surface is too wet to paint. Wait 24 hours and perform the test again. You must continue with this test until no condensation forms under the plastic after the wait period.

Note: Painting over a wet or damp surface will result in the coating to blister and peel. It will also cause the epoxy coating to bloom being a fine white powdery deposit to form on the surface.

Application

Stir the contents of the Base before mixing with the Hardener in recommended ratio. Mix the two together and allow 5 minutes' maturation. It is recommended that on suitably prepared bare concrete, the first coat of Aquapoxy Water Borne 2 Pack Epoxy is applied after 10% thinning to result in a DFT of approximately 50 microns. On hot days, addition of thinner may be required periodically to maintain an even flow. Allow film to dry thoroughly and evenly before application of second coat (usually after 4 -6 hours, in ideal weather conditions). The second and subsequent coats may be applied with 5-10% thinning (as dictated by ambient conditions). Do not apply more than three coats. If application takes a long time it is advisable to replenish the evaporating thinner in the tray periodically. Apply using spray, roller or brush (only for small areas and cutting in). Use a 10 mm nap roller on smooth surfaces, and a 12-16mm for course surfaces.

Coating Maintenance

- Washing the painted surface periodically will maintain the look of a newly painted surface longer. Clean the surface with a diluted mild detergent and rinse well with clean water.
- Do not use scouring pads, abrasive brushes, high pressure washing or solvent to clean the painted surface. These will damage the paint film and cause premature failure of the coating.

Mixing and Colour Check

Stir each can thoroughly until the contents are uniform. Use of a power mixer recommended. Mix the contents of both packs together thoroughly using a power mixer immediately prior to use. Allow 5 minutes' maturation time for the chemical reaction to take place, remix and apply without further delay.

Ensure the water is available before commencing application. Remix the paint every 20 minutes to ensure product consistency. Check colour to the colour chart/standard prior to application. Inner mix multiple containers together to ensure colour consistency. Replace and secure container lid during painting to prevent the paint drying within the container. Usable time, or "pot life" once mixed is 1 hour, discard any mixed product after this time.

Flammability & Transport

- Non-flammable.
- Ensure container is upright with lid secure.
- Ensure the container is secured in the vehicle for transport.

Environmental

- Do not wash coating equipment and allow waste to enter drains and water ways.
- Do not dispose of unwanted coating and thinners that will enter drains and water ways.
- Refer to state EPA web site for disposal details.

Safety & Precautions

- Do not apply when surface temperature is below 10C or over 35C
- Do not apply in environments of high humidity/moisture, or if pending rain is a possibility.
- Apply in calm fine weather conditions and only during daylight hours.
- Cease painting 2 – 4 hours before sunset or if weather changes are forecast.
- Do not apply early morning if dew or frost is present.
- Use only the recommended thinner for dilution and cleaning.
- Check paint colour to the colour chart/standard prior to application
- Provide the necessary PPE protection to applicators.
- Provide adequate ventilation during use.
- Keep out of reach of children.
- Check cross cut adhesion test of old coating before repainting.
- Apply a test sample for compatibility of this product over a small test area.

First Aid

If swallowed, do not induce vomiting. Give plenty of water to drink. Contact a doctor or the Poisons Information Centre. Phone 131 126 (Australia).

If in eyes, hold eyes open and flood with water for at least 15 minutes. Seek medical attention if any irritation persists.

If on Skin, remove contaminated clothing, wash skin thoroughly with soap and water. Do not use solvents.

If affected by inhalation, remove person to fresh air. If breathing difficulties persist or occur later, contact a medical doctor

*Cooler temperature, higher film thickness and higher humidity conditions will require longer drying times

**Practical coverage may depend on surface profile, method of application and losses. Higher film thickness will lead to lower coverage.

The technical information and suggestions for use and application are given in good faith. Since conditions of use are beyond the manufacturer's control, information contained herein is without warranty, implied or otherwise. The manufacturer does not assume any liability for any loss or injury resulting from the use of the product. Cooler temperature, higher film thickness and higher humidity conditions will require longer drying times

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