

Omega Water Based Epoxy Coatings

Production Description

Two pack, durable cured epoxy coating for areas subject to wear, exposure to chemicals, solvents and other industrial fluids. Can be applied directly on bare concrete surface after proper surface preparation without any sealer. Available in a wide range of industrial colours.

Areas of Application

Ideally suited for floors in mechanical and chemical industries.
 Not suitable for areas where ground water is likely to rise through the substrate.

Technical Data

Colour	White, Black, Grey and Australian Standards AS2700 colours
Solvent Resistance	Great resistance against all types of solvent except only fair to acetone
Toxicity	Dry film is not toxic
Thinning & Clean Up	Water . Upto 3% by weight of the mix.
Theoretical Coverage*	4 - 6 sq. m.per litre at 50 m DFT / Depends on surface profile
Drying Time (at 25 ⁰ c & RH 60%)**	Touch dry 6-8 hours ** / Recoat16- 24 hours **
Mixing Ratio	1 : 1 by Volume
Pot Life (at 25 ⁰ c & RH 60%***)	45 minutes
Packs available	4 litre and 16 litre Packs

*Practical coverage depends on surface profile, method of application and dry film thickness. Higher film thickness leads to lower coverage.

** Cooler temperature, higher film thickness, or higher humidity conditions will lead to longer drying times.

***Must use within the specified time otherwise the paint will start curing in can and will not be suitable for application anymore.

Method of Application

Can be applied by spray, brush or roller. Please use the method best suited to your requirement and skill. The use of either a synthetic sleeve of 10-mm nap or a foam sleeve, both with phenolic cores on a smooth surface is recommended. The addition of aggregate may be added to the coating to provide a slip resistant surface. Slip resistance is recommended on sloping or steep surfaces

Surface Preparation

Concrete: Ensure that the surface is dry and free from dirt, moisture, contaminants like grease, oil, wax, moss, mould, dust or loose material. New concrete surfaces should be allowed to cure 4 – 6 weeks. All cracks and damaged areas should be repaired. Smooth troweled concrete must be acid etched to ensure proper adhesion. Wash surface thoroughly after acid etching to remove all traces of acid. Allow complete drying for 3-4 days. If moisture >4% is present in concrete it may result in defect in Epoxy coating. Previously painted surface shall be subjected to thorough removal of loose & flaking paint. Oil, grease & other contaminants shall be removed by cleaning with mild detergent solutions and rinsed well with clean water. After preparation, touch up bare areas with Omega water based Coating and allow to dry before following with two full coats. When applying over an unknown coating, please test the adhesion & compatibility of this product over a small test area.

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.

Steel & Galvanized Iron: Blast clean the surface or sand thoroughly with emery paper to remove all rust and scale. Dust off and wipe the surface clean with thinner to remove oil, grease and other contaminants. Prime with Rustblock Etch Primer before applying finish coat to ensure good adhesion.

Application

Stir the contents of the Base before mixing with the Hardener in exact recommended ratio. Mix the two parts using mechanical stirrer for 3 minutes to ensure homogeneous mixing. If it is not properly mixed the film does not cure and results in tacky film and remains tacky. It is recommended that on suitably prepared bare concrete, the first coat of Omega Water based Epoxy is applied to result in a DFT of approximately 80 -100 microns. On hot days, the pot life may be shorter. Hence mix only required quantity that could be coated by the personnel.. Allow film to dry thoroughly and evenly before application of second coat (usually after 12 hours, in ideal weather conditions). The second and subsequent coats may be applied after the first coat is dried.. Do not apply more than three coats. If non slip finish is required appropriate Alumina Grits are sprinkled over the first coat when it is wet and allowed to cure. Then prior to the next coat excessive (unbonded) grits are swept off. Subsequent coats are then given over the dried first coat (with the grits)

Important Note on Driveways and Garage Floors: Hot Tyre Pick Up

Hot tyre pick up is a common problem with painted driveways and garage floors. Although the coating dries quickly, and can be walked on in a few hours, the coating needs to be cured before allowing traffic onto the surface. Depending on the weather conditions, allow the paint to cure for at least 1 week before parking on the surface. Even then, if the vehicle has been driven a distance, and the tyres hot, park the vehicle on the roadway and allow 10 - 20 minutes for the tyres to cool, before parking on the painted surface.

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.

Coating should not be washed prior to 72 hours of the final coat. Failure to do so will result in white patches called blushing and carbonation.

Mixing and Colour Check

Mix the coating thoroughly before application with a mechanical stirrer. Improper mixing will result in tacky films.

Recommend to mix a small mix in the correct ratio and coat on a tab to see if the required colour is achieved.

Flammability & other DG classification & Transport

Non hazardous

If buying Xylene from Omega it is Flammable DG class 3.2

Keep away from heat and flame, eliminate any source of ignition.

Soak all used cloths and rags immediately in water to prevent self-ignition. Ensure container is upright with lid secure.

Ensure the container is secured in the vehicle for transport.

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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

Keep the coating materials above 10C. Keeping material below 10C is not advisable. Do not apply when surface temperature is below 10⁰ C or over 35⁰ C
Do not apply in environments of high humidity/moisture, or if pending rain is a possibility.
Once two components are mixed, must use within its pot life as specified in earlier section
Apply in calm fine weather conditions and only during daylight hours.
Cease coating 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 coating colour to the colour chart/standard prior to application 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.
Always refer to SDS prior to commencement of application.

First Aid

If swallowed, do not induce vomiting. Give plenty of water to drink. Contact a doctor or the Poisons Information Centre. Phone 131126 (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

Disclaimer: In lieu of all warranties expressed or implied, the seller's and manufacturer's only obligation shall be to replace such quantity of the product proved to be defective. Neither the seller nor manufacturer shall be liable for any injury, loss, damage, direct or consequential, arising out of the use of or inability to use this product. Since the use and application of this product is beyond the control of the seller and the manufacturer, the purchaser and user assumes all risk and liability whatsoever, in connection with this product therewith.

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