

## AQUA STATIC

two part epoxy  
primer/moisture barrier



Aquastatic water based epoxy coating is a universal, Water based epoxy coating system designed for easy and safe application. It has excellent adhesion to most substrates; it is principally designed as a membrane but Also serves as a sealer. Aquastatic water-based epoxy. Is suitable for interior or exterior use. Note for long term exposure to UV the surface will gradually yellow and Chalk. Aquastatic epoxy contains UV protection Additives & pigments, while it will have better UV Performance than a conventional solvent epoxy, the Backbone of the coating is still an epoxy when cured. It is suitable as a final finished cosmetic surface coating or as a waterproofing protective underlayment for other cosmetic finishes. Aquastatic waterbased epoxy possesses most of the properties of conventional epoxy resins with many additional advantages, particularly its tolerance of damp or wet surface application conditions or green concrete. It is applied in the same manner as ordinary emulsion paint and dries quickly to form a tough, easily cleaned coating, providing a waterproof and virtually vapour free barrier. Once cured Aquastatic epoxy will give a good finish with a tough durable surface, which is completely waterproof, non-toxic, resistant to oil, petrol and mild chemicals. Subsequent over coating can be Carried out after the original surface has been thoroughly degreased and cleaned.



### FEATURES, BENEFITS, AND ADVANTAGES

- Solvent Free
- 1:1 Volumetric Mixing Ratio
- Fast Curing
- Ecologically Friendly & Low Odour
- Non flammable & Easy Water Clean Up

### Physical Properties

Standard colour	Grey	
Gloss level	Semi-loss tending towards matt with exposure and age	
Mixing ration	Equal parts by volume (a:b)	
Solids	~50%	
Coverage	Must be applied in a minimum of 2 coats, each coat approx. 3m <sup>2</sup> per l. le: combined coverage 1.5m <sup>2</sup> per l – this will equate to approx. 0.3mm dft	
Pot Life	Pot Life	
Recoat time	Recoat time	
Full cure	Full cure	



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## USAGE/PURPOSE & BENEFITS:

Aquastatic water based epoxy has many uses in the Building and construction industries, the following are just some examples. It can be applied to damp or wet surfaces. To achieve good adhesion. many concrete coating systems can only be applied to dry concrete.

Aquastatic Epoxy being water based, equates to no incompatibility problem with the moisture in the substrate, the epoxy backbone then provides an excellent adhesion to the substrate. It can be applied to green concrete, not only because of the damp nature but also because of the concrete curing process. When using conventional concrete coatings, the concrete should be left for 28 days to achieve a cure. During the concrete curing process the concrete forms loosely bound salts on the surface of the concrete.

When coated with conventional coatings prior to a full cure (generally 28 days), these salts continue to form at The interface resulting in a very poor bond and probable delamination of the coating.

When Aquastatic Epoxy is applied to the green concrete it actually forms part of the hydration process of the cement, the coating then forming a cement epoxy matrix containing the salts and therefore allowing excellent adhesion as well as maximizing the strength properties of the concrete.

It is ideally suited to provide a waterproof membrane in tanking applications. This membrane can be applied to either side of the structure providing the water head is less than 25m. It is normally preferable for the membrane to be applied to the inside to prevent water saturating the structure and possible corrosion to steel reinforcement in concrete structures. Typical applications are tanks, reservoirs, pools and ponds.

## SURFACE PREPARATION - APPLICATION

All surfaces should be clean from grease, oil, and other surface contaminants. all surfaces to be coated should be structurally sound. abrasive cleaning, high pressure water blasting . or other suitable means should be used to remove all concrete salts, efflorescence, and all previous coatings with unknown adhesion properties. Aquastatic Waterbased epoxy mixed system can be thinned up to 1:1 with water to produce a primer for very dry and highly porous surfaces. note the thinned version should only be used where it can be fully absorbed by the substrate and not be pooled on the surface. the actual membrane coating should not be thinned. Aquastatic Epoxy can be used for friable substrates or very dense non-absorptive surfaces. nonstructural cracks and holes can be repaired using an epoxy cement repair mortar based on aqua static water based epoxy. Mix Aquastatic Epoxy part A & B & allow to react for an additional few minute, add 50 to 100% additional clean water & mix till uniform. use this epoxy /water mix as a replacement for normal water going into a 2:1 sand cement mix. possible blisters resulting from substrate gassing – note this is a problem with the substrate not the Aquastatic Epoxy.

Do not apply Aquastatic Epoxy membrane to an un-primed porous substrate with rising temperature, or substrates that will rise in temperature within 2 hrs after application. failure to observe this precaution may result in blistering of the coating. if outgassing blisters occur, cut out the blister & re apply the coating when the substrate is cooling down. each Aquastatic Epoxy parts “A” & “B” should first be individually mixed in their containers. “A” & “B” should then be thoroughly mixed 1:1 by volume, preferably using a jiffy type mixer to avoid excess aeration. Aquastatic Epoxy membrane should be applied in a minimum of 2 coats (total of 1.5 m<sup>2</sup> per litre) Aquastatic Epoxy may be applied using brush, roller or spray. care should be taken especially the first coat when spraying to work the Aquastaic Epoxy into the surface to fill any voids.

## LIMITATIONS & PRECAUTIONS

Aquastatic Epoxy is water based and normal precautions for water based products should be observed. do not apply below 10°C, above 35°C or above 85% relative humidity. provide adequate ventilation to enable the evaporation of the water in the coating. note this is particularly important for deep draft areas like tanking applications. Aquastatic Epoxy forms a semi resilient membrane not a highly elastic membrane. so expansion areas need to be addressed as per conventional semi rigid coatings. refer to WMA for details. While Aquastatic Epoxy is suitable for light foot traffic (subject to the substrate), it is not intended to be used as a trafficable membrane.

## STORAGE

Keep in cool, dry place away from heat and direct sunlight.

## CLEAN UP

Being a water- based product it can be easily cleaned with preferably. warm water and detergents for brushes etc.

## SAFETY AND PRECAUTIONS

Aquastatic Epoxy is a water based product; however, avoid contact with skin and eyes. if poisoning occurs, contact a doctor immediately or the poison information center. prolonged use of Aquastatic Epoxy may cause a mild skin reaction for some people, we therefore recommend that protective gloves be worn during application

### Disclaimer:

This Technical Datasheet (TDS) contains technical details and recommendations based on our best knowledge and the information available at the time. You should read this TDS carefully and consider the information in the context of how the product will be used, including in conjunction with any other product and the type of surfaces to, and the manner in which, the product will be applied. Our responsibility for products sold is subject to our standard terms and conditions of sale.

WMA does not accept any liability either directly or indirectly for any losses suffered in connection with the use or application of the product whether or not in an accordance with any advice, specification, recommendation or information given by it.



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