

# Technical Data Sheet



Date June 2016  
Replaces Mar 2016

## AQUACOLOUR Epoxy Enamel

### GENERIC TYPE:

Water-borne, two-pack epoxy coating giving good durability, gloss, and abrasion resistance.

### PROPERTIES/ FEATURES:

- Excellent flow and levelling properties
- Excellent adhesion to most substrates damp and dry
- Long pot life
- **Non-flammable, No odour for use in confined spaces.**
- Heat resistance – up to 70°C
- Abrasion resistance – excellent
- Pencil hardness – 6H
- Flexibility (6mm mandril) – pass
- **Finish – Semi gloss**
- Solids volume – 40% mixed
- SG – 1.3 Kg/L mixed
- Hard monolithic finish
- **Non-toxic** when cured; **Low odour** during application
- Great ease of use (water based)
- Weathering – some chalking will occur in time but will maintain good film integrity. Some yellowing will occur.
- Colour – white. May be factory tinted to limited range of pastels.
- Maximum humidity during application – 85%. Requires good ventilation and air movement to aid drying

### SUGGESTED USED

- Abrasion, chemical, stain, graffiti resistant surface for toilet partition and wall and floor coatings, food and chemical processing plants. Will withstand cleaning with aggressive solvents to remove graffiti, etc. Also suitable for frequent washing with hot water and detergents.
- As gloss finish coat in SITUCLAD E system for food processing areas (refer that data)
- Will form a waterproof membrane / flooring when used in conjunction with **Aquaguard 101**.

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- Production line coating for fibre cement sheeting, primed steel, aluminium or galvanised iron
- High performance finish coating for industrial protection on the outside of chemical transport and storage tanks
- Air dry enamel finish for metal cabinets and claddings, particle board, plywood etc
- Slip resistant floor coatings.

**NOT RECOMMENDED:**

- Continuous immersion in strong acids, alkalies or aggressive solvents
- Contact with water within 36 hours after application
- Application in very cold, damp, unventilated conditions. (use Terratuff in these situations)
- May be slow to cure in adverse conditions.

**CHEMICAL RESISTANCE:**

Water resistance 25°C	Excellent
Water resistance 100°C	Good
10% Hydrochloric acid	Good
10% Acetic acid	Good
10% Sulphuric acid	Good
10% Caustic Soda	Good
Xylene	Good
MEK	Fair
Salt Spray ASTM B117-57T (1000 hours)	Good

**APPLICATION METHOD:**

**Caution: If applying over Aquaguard 101, to achieve good intercoat adhesion, ensure the AG101 is cured 48hrs prior to Aquacolour application.** Brush, roller, conventional and airless spray; roller is normal. Roll evenly to achieve a consistent effect. Thin slightly if necessary. Ensure good cross air flow to ensure good drying. A hard finish is obtained after 48 hrs.

**MIX RATIOS:**

Pack sizes : Part A 7.1 Lt (8.66 kg)  
 Part B 2.9 Lt (4.33 kg)  
 Mix a full part A with 1 part B, mix with electric drill and mixer

**COVERAGE RATES:**

8m<sup>2</sup>/litre/coat; Two coats recommended.

**SLIP RESISTANT FINISHES:**

Slip resistant finishes can be achieved using:

	<u>Application Weight</u>
Revtred (glass beads)	50m <sup>2</sup> /550gm pack
Microcells (ceramic sphere)	100gms/4 litres
J61 Sand (fine sand)	2 kgs/m <sup>2</sup>
Typical co-efficient of friction "wet" NZS/AS3661.1:1993:	
Revtred	0.54
Microcells	0.56
J61 Sand	0.63

**Note:**

Additive is applied to the second to last coat.

**FILM BUILD:**

- 125 micron wet/coat = 50 micron dry/coat
- Recommended 250 microns wet = 100 microns dry
- Number of coats – minimum two
- Note: These figures are based on undiluted material. Allowances must be made based on the rate of dilution. Also allow for application losses and surface irregularities.

**THINNING:**

Dilution – 5-10% with clean potable water. Also use meths for a strong diluent effect. 5-10%.

**DRY TIMES:**

Pot life	8 hrs at 20°C
Touch Dry	4 hrs
Recoat	Overnight,
Unaffected by water	48 hrs
Full cure	7 days
Minimum application temperature - +10°C	

**CLEAN UP:**

Warm water and detergent. Final clean with Methylated Spirits, Kerosene, or Nuplex brush cleaner

**CAUTION:**

- Relative humidity must not exceed 85% during application or subsequent cure. Ensure continuous crossflow ventilation to ensure dry & cure.
- Although this product is waterbased still use a suitable respirator when using in confined areas or spray applying.
- Care should be taken to avoid prolonged skin contact. Wash contaminated skin with soap and water and change contaminated clothing promptly.
- Ensure MSDS sheets are displayed on site.

**SHELF LIFE**

24 months in unopened containers. Store above 2°C.

**FLASHPOINT**

None; waterbased