

Waterbased 2 part epoxy coating for concrete floors

Description

Low sheen coating consisting of two parts, Part A (white opaque resin) and Part B (hardener). Part A & B are mixed in equal parts by volume (not weight) to result in a viscous solution.

Base can be tinted with Mastertone Aqueous Tints.

Uses

An epoxy base coating for internal concrete floors and Mastershield Flake Flooring. Ideal as a coloured coating for garage floors, light traffic warehouse floors, office floors. Allergy free coating for house slabs.

Advantages

- Water dispersible (can be diluted up to 10% with water)
- Water wash-up
- Very low odour
- Can be tinted
- Customised colours can be achieved.
- Excellent adhesion to concrete surface and damp but not wet concrete
- Can be overcoated with Lustre Seal Polyurethane M20 or Lustre Seal UA20 for a harder wearing surface.
- Can be sprayed for a decorative fleck finish.
- Sand can be added to create a slip resistant finish - see sand application.

Properties

Appearance:	White opaque viscous liquid
Pot life @ 25°C:	2-4 hours (approx)
Track free @ 25°C:	2-4 hours (approx)
Recoating time @ 25°C:	4 hours (approx)
Light trafficable @ 25°C:	24 hours (approx)
Full cure @ 25°C:	4 days (approx)
VOC (other than water):	Very low
Adhesion to:	
Old concrete:	Excellent (concrete failure)
Green concrete:	Excellent (concrete failure)
Flexibility:	Good
Hydrostatic pressure:	Good (3 coats DFT 300 micron)
Chemical Resistance (fully cured):	
2 week immersion @ 20°C	
Water	Little or no effect
10% Caustic	Little or no effect
Petrol	Little or no effect

10% Acetic Acid	Little or no effect
10% Sulphuric Acid	Little or no effect
Antifreeze	Little or no effect
Crude Oil	Little or no effect
Vegetable Oil	Little or no effect

Application Instructions

Preparation

Ensure surface to be coated is free of all dirt, grease, oil, paint, curing agents and other contaminants.

- If the floor is smooth, grinding is advised. This will maximise adhesion.
- If curing agent has been applied, grinding is necessary.
- Acid treatment is a secondary option. Acid etch with hydrochloric acid. Dilute approx 20 parts water to 1 part acid (depending on porosity) to remove any loosely bound cement and laitence.
NOTE: smooth concrete will require a higher acid content. Maximum strength - 10 parts water to 1 part acid. Pressure clean immediately to clean and remove all remnants of acid (do not allow acid to dry on surface). Pressure clean at minimum 2000 psi (large open areas, example factories and warehouses, required for this preparation).

Mixing

- Mix A and B in correct proportions (1:1 by volume) in a clean, dry 20L bucket. Mix thoroughly for a minimum 3 minutes with mechanical mixer at low speed until mix colour is uniform (white).
- Transfer contents into separate clean bucket. Ensure no unmixed product remains in the first bucket. Mix again.
- Add 1 x 400ml Mastertone Aqueous Tint per 10L kit. Mix thoroughly until even colour is achieved.

Note: First coat can be diluted up to 10% with water.

Application

- Roller or hopper spray applied. Roller tray required for roller application.
- Ensure coats are applied evenly and not too thick.
- First coat can be diluted up to 10% with water.
- Allow approximately 4 hours between coats, depending on conditions.
- Second coat to be applied undiluted.
- Third coat may be required in the lighter colours.
- Allow to cure.

To obtain a lower slip factor it is advisable to use the appropriate slip resistant additive with the sealer for better grip under adverse conditions.

Mastershield® M50

Waterbased Epoxy

Sand Application

- Sand application by hopper gun only.
- After Part A, Part B and tint is thoroughly mixed.
- Add 2 kg (or 1300ml) of sand for every litre of product.
- Clean washed fine silica sand must be used.
- Mix thoroughly and add mix to hopper gun. Spray both coats to surface at approximately 30-35 psi.

Curing Time

After sealing it is recommended that the sealed surface be protected from:

- Foot traffic for a minimum of 24 hours
- Vehicle traffic for a minimum of 4 days

The time depends on weather conditions and coating thickness, therefore, check suitability before allowing traffic.

Limitations

- Internal use only.
- Application temperature 10°C - 35°C.
- Not suitable as a waterproofing membrane.
- Yellows with direct sunlight.
- Not available in clear. Refer to other sealers in the Lustre Seal range.

Supply

10 litre kit

Part A	5.0L	PC:MS50A
Part B	5.0L	PC:MS50B

Coverage

As a primer 1 litre per 6 m² depending on surface porosity.

As a top coat 1 litre per 6-10 m² depending on surface porosity.

Shelf Life

12 months from manufacture if stored unopened in ideal conditions.

Storage

Store in a cool dry area, away from oxidising and reducing agents, amines, acids and alkalies.

Maintenance

Remove oil, grease and other contaminants immediately with a general purpose cleaner.

Cleaning

Clean up with water.

Safety

Ensure appropriate PPE is worn.

Important notice

A Safety Data Sheet (SDS) and Technical Data Sheet (TDS) are available from the Parchem website or upon request from the nearest Parchem sales office. Read the SDS and TDS carefully prior to use as application or performance data may change from time to time. In emergency, contact any Poisons Information Centre (phone 13 11 26 within Australia) or a doctor for advice.

Product disclaimer

This Technical Data Sheet (TDS) summarises our best knowledge of the product, including how to use and apply the product based on 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. Parchem 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 accordance with any advice, specification, recommendation or information given by it.



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