CCS ULTRA EPOXY WB PRIMER/SEALER

DESCRIPTION

CCS Ultra Epoxy WB Primer/Sealer is a two component, water based epoxy coating system specifically designed for concrete and cementitious surfaces.

When used as sole priming/sealing system for concrete it will dust-proof the surface and provide excellent stain resistance to oils and other contaminants.

It can also be used as a primer for subsequent top coats such as waterborne polyurethanes and other clear coatings.

FEATURES AND BENEFITS

- Water based – Low VOC
- Excellent adhesion to mineral substrates
- Penetrates and binds surface particles
- Low odour
- Fast drying times
- Excellent chemical and stain resistance
- Easy clean up
- Can be used internally on its own and externally in combination with a non-yellowing clear top coats
- Re-coatable
- Long pot life
- Visible application (milky when applied, dries clear)

RECOMMENDED USES

- Factory floors
- Shop floors
- Walls
- Garage floors
- Internal car parks
- Warehouses
- Store rooms
- Corridors
- Decorative and flake flooring
- Food/beverage factories and warehouses
- Hospitals
- Shopping centres
- Schools
- Laboratories
- Wash rooms and shower cubicles
- Seamless flooring
- Waterproofing concrete slab – before floor overlay

PERFORMANCE PROPERTIES

Appearance	Liquid
Colour	Clear
Finish	Gloss
Volume Solids	Approx. 30% when mixed
Specific Gravity	Approx. 1.1 @ 25°C
Mixing Ratio	2 : 1
Dry Film thickness	30 micron
Usage	12m²/litre @ 30 µm DFT
Dust Free#	45 minutes
Re-coatable#	45–90 minutes
Pot Life#	Approx. 4 hours @ 25°C
Full Cure#	5 days @ 25°C

Note these times depend upon relative humidity, air circulation, temperature and film thickness. Actual times will vary according to combinations of these variables.

PACKAGING

CCS Ultra Epoxy WB Primer/Sealer is available in 10 litre pails.

- Part A: Base – 6.7 litre
- Part B: Hardener – 3.3 litre

COVERAGE

Coverage is typically

First Coat: 5–6m²/litre/coat
Second Coat: 6–7m²/litre at 30 micron DFT

SURFACE PREPARATION

All surfaces to be sealed must be structurally sound and any previous coatings such as curing compounds, adhesives, efflorescence or laitance should be removed by mechanical grinding or abrasive blast cleaning, high pressure water blasting, mechanical scrubbing or other suitable means.

Mildew must be removed with an appropriate solution. Holes, non-structural cracks and other surface deformities should be repaired using the 1.5 litre CCS Epoxy Repair Kit in accordance with the technical data sheet. New concrete floors should be at least 28 days old before applying CCS Ultra Epoxy WB Primer/Sealer.

To prepare a concrete surface use either CCS Citric Cleaner or CCS HD Degreaser to remove surface contaminants. By using CCS Citric Cleaner at a lower dilution rate an etching process is provided to the surface. To ensure the acid is neutralised apply CCS HD Degreaser prior to the application of CCS Ultra Epoxy WB Primer/Sealer.

All surfaces should be dry and clean before application.

APPLICATION

Apply CCS Ultra Epoxy WB Primer/Sealer with a lambs wool, mohair or max 12mm nap roller, brush or airless sprayer.

The product must be mixed prior to application in a mixing ratio of 2:1 (2 parts Part `A' to 1 part `B') Part `B' must be added to Part A'`, then stir for 2 minutes until the mixture has a uniform consistency. It is preferred that mechanical mixing is used for best finished product consistency.

Two to three coats are necessary for optimum protection.

FIRST COAT

1 Using a mechanical mixer, premix each individual component (i.e. Part A and Part B) until homogenous.
Note: Please ensure you always clean the mixer between mixing (to eliminate cross contamination and cured product being mixed with new batches).

2 Add Part B (Hardener) to Part A (Base) and mechanically stir for 1–2 minutes. Scrape product downwards from the inside of the container and mechanically stir for a further 1–2 minutes.
Note: Please ensure you clean the mixer thoroughly before commencing the next step.

3 Leave material to stand for 2–5 minutes before application and only mix as much as is likely to be used within the pot life of the product. Please note leaving the mixed epoxy (A+B) in a bucket or confined mixing vessel will greatly reduce the pot life of the product.
Once Part A, Part B and tint are all mixed sufficiently pour mixed epoxy onto the floor for spreading by roller or Squeegee and pour remaining mixed epoxy into a roller tray.

4 Apply the first coat of CCS Ultra Epoxy WB Primer/Sealer by roller at a rate of 5–6m^2 per litre.

5 To provide a textured surface that will enhance traction, apply CCS Glass Bead to the first coat of CCS Ultra Epoxy WB Primer/Sealer whilst still wet. Apply at a heavier rate of 3m^2 per litre.

6 Allow the first coat to dry for a minimum of five hours. Remove excess glass bead with a broom or an industrial vacuum.

SECOND COAT

Apply the final coat of CCS Ultra Epoxy WB Primer/Sealer in a uniform manner.

Note: It is imperative that you use a clean bucket and clean mixer before commencing mixing and application of the second coat. The second coat should be applied at a rate of 6–7m^2 per litre of mixed product.

2 Do not work the coating excessively or apply the coating too thickly as this may result in air bubbles being trapped and a soft cloudy film.

3 The first coat maybe touch dry within 30-45 minutes depending on climatic conditions. Ensure the first coat is touch dry before applying the second coat.

Special Application Notes:

It is best to let the coating cure for as long as possible before re-coating with another product. Care must be taken when re coating with 2 Component Waterborne Polyurethanes as uncured parts of the Epoxy Primer may interfere with the PU curing process and end properties.

Avoid low surface air temperatures as well as high humidity as this will increase drying time and curing rate.

Do not apply below 10ºC or above 85% relative humidity. Ensure adequate air movement.

Avoid climatic conditions with relative humidity >85%, object/air temperature <10°C as they will greatly effect drying and curing speed.

Discard any unused material after exceeding the pot life. The pot life is approximately 4 hours. The end is not visible through thickening. Set a clock to determine end of pot life.

Discard any leftover mixed material after this time.

Epoxies yellow under the influence of UV light. Only for interior use when used on its own.

CURING

Allow the surface to cure for at least 24 hours before subjecting it to pedestrian traffic, 96 hours before allowing vehicular traffic and 5–7 days before subjecting it to chemicals or severe abrasion.

CLEAN UP

Wash all equipment in water or a water/ detergent mix immediately on completion of application and mixing.

Note: CCS Ultra Epoxy WB will cure under water; hence ensure dirty equipment is not left soaking in water. Clean all equipment immediately with water.

STORAGE

CCS Ultra Epoxy WB Prime/Sealer components should be stored between 5ºC and 30ºC. Keep containers closed at all times. Avoid contact with skin and eyes absolutely. Keep away from foodstuffs, drinks and tobacco.

For further information consult the Safety Data Sheet and read the product label carefully before use.
Safety Data Sheets are available from www.concretecoloursystems.com.au or by calling 1800 077 744.

User Responsibility-Product Selection and Compatibility

CCS warrant that their manufactured product is free from defects as well as being suitable for the purpose for which it is intended as long as it has been used and applied in accordance with the most current Technical Data Sheet from CCS.

In practice, differences in materials, substrates and actual site conditions require an assessment of product suitability for the intended purpose.

The user is responsible for checking the suitability of products for their intended purpose.

Further, combinations of products that form a total system are often required to service particular applications. Due to the multitude of products available to service an application, only products from the CCS system of products must be used in combination with this product to ensure it will be suitable for the purpose for which it is intended.

The product must also not be mixed or used in combination with any other product which is not a product supplied by CCS

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