

CCS DECRATHANE SATIN

March 2022

DESCRIPTION

CCS Decrathane Satin is a clear, water based, low VOC (Green Star IE1-13 compliant), high performance, two component polyurethane coating system formulated to protect concrete from solvents, chemicals, oils and acids.

It is ideal for internal and external honing and sealing and as a replacement for traditional epoxy based coatings where a satin finish and less downtime is required.

RECOMMENDED USES

- High traffic areas
- Honed or polished concrete
- Domestic and retail flooring
- A UV stable top coat for CCS Ultra Epoxy floor coatings
- Over Epoxies
- Garage and workshop floors
- Anywhere a satin, low VOC coating is required

FEATURES AND BENEFITS

- Can be used internally and externally
- Easy to clean surface
- Low odour, low VOC
- Water based product
- Excellent adhesion to most substrates including prepared concrete
- Produces an attractive satin finish
- Excellent chemical and stain resistance
- Excellent scratch resistance
- Excellent wear resistance
- Can be made anti-slip (with addition of anti-slip particles)

PACKAGING

CCS Decrathane Satin is available in a 20 litre kit:

- Part A (Base): 16 litres
- Part B (Hardener): 4 litres

PERFORMANCE PROPERTIES

| COLOUR | CLEAR |
|------------------|--|
| Odour | Slight |
| Pot Life | Up to 3 hours |
| Mixing Ratio | 4 : 1 (Part A : Part B) |
| Finishing | Satin |
| Volume Solids | Approx. 44% (Mixed) |
| Specific Gravity | Approx. 1.07 @ 25°C |
| Drying Time** | 30–90min @ 25°C 65% RH |
| Re-coat Time | 3–6 hours @ 25°C 65% RH Second coat must be applied within 24 hours |
| Full Cure** | 5–7 days @ 25°C 65% RH |
| Spread Rate | 7–10m ² / litre approx. |

** Dependent upon climatic conditions; relative humidity, Air/object temperature and air movement.

COVERAGE RATES

| COLOUR | CLEAR |
|-------------|----------------------------|
| First coat | 7–9m ² / litre |
| Second coat | 8–10m ² / litre |

Note: A minimum of two coats should be applied.

SURFACE PREPARATION

All surfaces to be treated should be structurally sound. All previous coatings, adhesives and efflorescence or laitance should be removed by mechanical grinding or abrasive blast cleaning, high pressure water blasting, mechanical scrubbing or other suitable means.

Holes, non-structural cracks and other surface deformities should be repaired using the CCS Epoxy Repair Kit in accordance with the technical data sheet. New concrete floors should be at least 28 days old before applying CCS Decrathane Satin.

APPLICATION METHOD

CCS Decrathane Satin should be applied with a lambswool, mohair or 10–12mm nap roller, brush or airless sprayer.

A cross-hatching method of application should be used to avoid lap marks.

APPLICATION OF FIRST COAT

WARNING – If not mixing a complete kit it is critical that the correct volumes of Part A and Part B are used (4:1).

1. Using a mechanical mixer, premix each individual component (i.e. Part A and Part B) until homogeneous. Ensure the mixer is thoroughly cleaned between each component to eliminate cross contamination and cured product being mixed with new batches.
2. Add Part B (Hardener) to Part A (Base) and mechanically mix for 1–2 minutes. Scrape down the sides of the container and mechanically mix for a further 1–2 minutes.
3. Add 20% water to the mixed product, i.e. 200ml of water to every 1 litre of mixed together Part A & Part B. This will assist to maintain a wet edge.
4. Mechanically mix for a further 1–2 minutes.
5. Leave material to stand for 5 minutes prior to application. Only mix as much material as you are going to use within the pot life of the product (approximately 3 hours depending on climatic conditions).
6. Apply the first coat of CCS Decrathane Satin at a rate of 7–9m² per litre. If applying with a roller use a crosshatching method of application to avoid lap marks.
7. Ensure the first coat is dry before application of a second coat. Curing time for the first coat is usually between 3-6 hours depending on climatic conditions and whether the project is located indoors or outdoors.

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WARNING - The second coat must be applied within 24 hours of the first coat to ensure that the second coat will key into the first coat. If the second coat is not applied within 24 hours the first coat will require light sanding or softening prior to application of a second coat. Contact your CCS representative for advice.

APPLICATION OF SECOND COAT

1. Ensure that a clean bucket and mixer is used before commencing mixing and application of the second coat.
2. Mix the second coat in the same manner as the first together with 10–20% water.
3. Apply the second coat of CCS Decrathane Satin by roller at a rate of 8–10m² per litre. If applying with a roller use a cross-hatching method of application to avoid lap marks.

WARNING - The second coat must be applied within 24 hours of the first coat to ensure that the second coat will key into the first coat. If the second coat is not applied within 24 hours the first coat will require light sanding or softening prior to application of a second coat. Contact your CCS representative for advice.

APPROPRIATE SURFACE TEXTURE

As a general statement, the application of a coating to concrete will reduce the existing slip resistance of that surface. Consequently, care must be taken before sealing concrete to ensure that the surface texture has sufficient profile to provide adequate traction. However, as the sealer wears, the traction additives will also diminish in effectiveness.

CCS Glass Beads can also be added to aid traction. CCS Glass Beads should be applied during the application of the first coat by casting it onto the surface in a uniform manner.

A second coat of CCS Decrathane Satin should then be applied over the glass beads within 24 hours.

CURING

Allow the sealer to cure for at least 24 hours before subjecting to pedestrian traffic and 7 days for vehicular traffic or any other equipment that could impact, mark or damage the surface.

PRECAUTIONS

CCS Decrathane Satin should not be applied to surfaces subject to hydro static pressure or rising dampness. Prior to using CCS Decrathane Satin the manufacturer should be consulted if the following conditions exist:

- The concrete substrate is porous or in poor condition
- The surface is subjected to unusually cold conditions (i.e. below 10°C)
- The surface is subjected to unusually high temperature above ambient temperatures whilst in service (e.g. floors subjected to hot or boiling water)
- The floor is subjected to severe chemical attack.

Please note: The information given in this data sheet is based on our current knowledge of the product when properly stored, handled and applied. We cannot guarantee that the product will be suitable, effective or safe when used for any purpose other than its stated uses. To the extent that it is lawful, we exclude warranties implied by law and limit our liability to the cost of replacing the product. We accept no responsibility for loss or injury caused by improper use, incompetent preparation, inexperienced or negligent application, or ordinary wear and tear. Service or advice given by our staff should not amount to responsibility for the project - since the owner or their contractor (and no River Sands), is responsible for the procedures relating to the application of the product.

Other Precautions

- The pot life is approximately 3 hours. Discard any leftover mixed material after this time.
- Do not apply when relative humidity exceeds 85%.
- Do not apply when temperature exceeds 32 degrees or onto a hot substrate
- Do not re-seal mixed product as pressure build up may occur.

CLEAN UP

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

STORAGE

Store between 10°C and 30°C away from direct sunlight. Partly used containers must be sealed tightly when not in use.

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.

For further information consult the Safety Data Sheet and read the product label carefully before use.

Safety Data Sheets are available from

www.concretocoloursystems.com.au or by calling 1800 077 744.