

CCS FLAKEKOTE 100S

Single Coat Polyurethane

March 2022

DESCRIPTION

CCS FlakeKote 100S is a pioneering new product specially formulated as a high-quality surface coating solution for decorative flake flooring applications. It is a single component, high-performance, non-flammable, low odour coating which uses industrial strength polyurethane technology to provide an extremely durable, long lasting, non-yellowing final coat. CCS FlakeKote 100S is designed to provide the applicator with the convenience and time saving of applying a single coat as the final step in a flake floor application. A single coat is equivalent to 2-3 coats of many other polyurethane products due to the advanced proprietary ingredients found in CCS FlakeKote 100S

CCS FlakeKote 100S as the final topcoat will safeguard the floor from stains, wear and abrasion by providing an intensely resilient top surface with just one coat. When used in combination with CCS TripleKote, the installation time and material cost of a standard flake floor can be greatly reduced to provide the applicator with far more profit on each job.

FEATURES AND BENEFITS

- 1 coat is equivalent to 2-3 coats of other products
- 5 litre pack covers most double garage floors
- Single pack – no measuring or mixing
- Contains UV stabilisers – non yellowing
- Low odour, non-flammable, non-DG formulation
- Outstanding resistance to aggressive liquid spills
- Exceptional water and abrasion resistance
- Supreme high gloss properties
- Excellent adhesion and bonding properties
- Can be used internally and externally
- Long open working time

RECOMMENDED USES

Clear topcoat over all decorative flake floor installations or honed concrete.

PERFORMANCE PROPERTIES

Appearance	Liquid
Colour	Clear to light straw
Finish	High gloss
Solids Content	98%
Total VOC	<100 g/ltr
Touch Dry#	<4 hours
Full Cure#	7 days
Recoat	6-24 hours
Pot Life#	>100 minutes
Full Cure#	7 days @ 25°C 65% RH
Application Temperature	10°C - 30°C
Coverage Rate	7.0 - 8.0 per m2
Odour	Slight

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

PACKAGING

CCS FlakeKote 100S is available in a 5 litre container.

COVERAGE

Coverage is typically 7-8 m2/litre/coat.

SURFACE PREPARATION

All surfaces to be treated should be clean and structurally sound. All previous coatings, adhesives, efflorescence or laitance should be removed by mechanical grinding or abrasive blast cleaning, high pressure water blasting, mechanical scrubbing or other suitable means. An appropriate primer such as CCS Ultra Epoxy Primer/Sealer should be used prior to application of FlakeKote 100S where it is being applied directly on concrete.

Existing Concrete

To ensure all surface contaminants are removed, apply CCS HD Degreaser or CCS Citric Cleaner to the surface, removing any oil stains. Scrub the surface with auto scrubbing equipment or use a high-pressure water cleaner to remove contaminants, ensuring all traces of the degreaser are thoroughly removed.

Holes, non-structural cracks and other surface deformities should be repaired using CCS Epoxy Repair Kit in accordance with the technical data sheets.

Over New Concrete

Fresh concrete should be left to cure for a minimum of 28 days prior to application of sealer.

Remove all oil, grease and dirt using CCS HD Degreaser, then thoroughly wash the surface using auto scrubbing equipment or a commercial high-pressure water cleaner.

Where efflorescence or laitance is present, a mild wash using CCS Citric Cleaner.

Use CCS Citric Cleaner as per the label and data sheet instructions.

Resealing CCS FlakeKote 100S

Remove all dirt and dust from the surface using HD Degreaser. Re-application of the product requires surfaces previously sealed with CCS FlakeKote 100S to be sufficiently sanded to provide an adequate 'key' for the new sealer.

Apply one undiluted coat of sealer as per guidelines. Allow the surface to cure for at least 24 hours before subjecting it to pedestrian traffic, and 96 hours before allowing light vehicular traffic over it. Allow seven days before subjecting the surface to chemical attack or severe abrasion.

APPLICATION

All concrete surfaces must be thoroughly dry before applying any sealer.

CCS FlakeKote 100S should be applied with a good quality roller, magic trowel or similar.

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1. Ensure the lid is tight then shake the container vigorously.
2. Allow product to sit after shaking to allow any bubbles or foam to dissolve.
3. Pour CCS FlakeKote 100S directly from the container onto the floor and use a roller, magic trowel or similar to spread the product out evenly across the surface. Once a uniform covering has been achieved back roll the sealer using a lamb's wool or mohair roller to ensure an even finish. Use at the rate of 7-8m²/litre.
4. Do not work the coating excessively or apply the coating too thick as this may result in air bubbles being trapped and a soft cloudy film.
5. Usually only a single coat is required however if a second coat is being applied (some commercial/high traffic areas) allow the first coat to dry for a minimum of three to four hours dependant on climatic conditions before applying the second coat.
6. Apply the second coat of CCS FlakeKote 100S at the rate of 9-10m²/litre and allow to dry overnight. The second coat should be applied at right angles to the previous coat.
7. Allow the surface to cure for at least 24 hours before subjecting it to pedestrian traffic, and 96 hours before allowing light vehicular traffic over it. Allow seven days before subjecting the surface to chemical attack or severe abrasion.

Precautions

CCS FlakeKote 100S should not be applied to surfaces subject to a moisture vapour transmission rate of more than 14.5g/m² per ASTM F1869 calcium chloride test method.

Do not over apply CCS FlakeKote 100S. Applications of more than 150 microns may result in foaming and/or bubbling.

Shake the CCS container well before opening. Once container has been opened CCS FlakeKote 100S chemically reacts to moisture. Do not re-use previously opened containers.

Use CCS FlakeKote 100S directly from the container it is supplied in, do not pour into any other containers before using.

Only apply CCS FlakeKote 100S in a temperature range of 10-30° and a humidity range of 40-65%

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. To aid traction, it is recommended that a suitable additive be used in conjunction with the sealer chosen. CCS Sealer Grip, CCS

Glass Beads and CCS Slip Reduction Granules all aid in providing traction and can be used in a variety of CCS sealers. Contact a CCS Coating representative for more information and assistance.

Tyre Resistance

***Note:** If there is friction between the tyre and the floor surface, a black mark sometimes appears.

This is a residue of carbon black which is a filler in rubber tyres that has been deposited onto the floor surface and is the result of a mechanical action and deposition.

However, yellow to brown stains can occur after certain types of tyre have been in direct contact with a lightcoloured floor coating over a period of time.

This stain is due to the presence of one or more additives used in the manufacture of certain tyres. The tendency and extent of the tyre to stain will depend on both the type of tyre and the type of floor coating.

CCS FlakeKote 100S displays good tyre stain resistance properties to the majority of tyre brands. However, due to potential choices of sub-coatings and extremes in weather and drying conditions during the curing of the floor coating, it is recommended not to leave car tyres directly in contact with the floor for a minimum 7 days after application and then no longer than overnight for another two weeks.

If a vehicle is to be left in contact with the floor for extended periods of time (i.e. greater than 2 weeks), place a mat or other material (not made of rubber) on the floor area where the tyre is most likely to rest to prevent the tyre from making contact with the floor coating.

CLEAN UP

Clean all equipment immediately with CCS Solvent. Cured material can be removed using CCS Enviro Stripper or by mechanical means.

STORAGE

Protect containers from physical damage. Store in a cool, dry well-ventilated location away from any area where a fire hazard may be acute. Avoid excessive heat, ignition sources and contamination with dirt and other foreign materials. Avoid contamination or inappropriate mixing with strong oxidising agents, peroxides, strongly caustic materials and metal corrosion products including rust. Store away from foodstuffs. Keep containers closed at all times.

FIRE

CCS FlakeKote 100S is non-flammable and non-DG.

Contact with strong oxidisers may cause fire. Sensitive to static discharge. DO NOT smoke or use any ignition devices near the product.

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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.

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 not River Sands), is responsible for the procedures relating to the application of the product.