

CCS RESURFACING COMPOUND

March 2022

DESCRIPTION

CCS Resurfacing Compound is the dry component of a two part colour system specially designed to rejuvenate existing grey concrete.

The system is comprised as a 20kg CCS Resurfacing Base bag to which one CCS Pigment Concentrate colour pack is added. These items are mixed with CCS Super Polymer and water prior to application over clean, sound and dry concrete.

CCS Resurfacing Compound is a processed blend of synthetic iron oxides, chrome oxides and titanium dioxide pigments, specially graded washed silica quartz aggregate, fresh Portland cements and surface conditioning agents.

CCS Resurfacing Compound is manufactured in accordance with our Quality Assurance system to Australian Standard AS3902.

USES

CCS Resurfacing Compounds and CCS Super Polymer have been formulated for use over prepared existing concrete or newly placed concrete that is a minimum of 14 days old.

PIGMENTS

Only UV resistant pigments complying with the World Pigment Standard BS1014 are used to ensure vibrant long lasting surface colours.

PACKAGING

CCS Resurfacing Base bag is available in 20kg paper sacks with a plastic liner.

Add one Pigment Concentrate Pack per 20kg bag of CCS Resurfacing Base Bag.

CCS Super Polymer is available in 20 litre drums.

COLOURS

A Pigment Concentrate Pack is added to the 20kg base colour to achieve the desired finish colour.

There are 30 colours to choose from in the colour range. Please select colours from the CCS Stylepave Colour Palette (textured) colour card.

MIXING INSTRUCTIONS

Before mixing, please note mix ratios below.

Mix Ratio: Mix Super Polymer and water at the ratio of 2 litres of Super Polymer to 3 - 4 litres of water (5-6 litres in total).

1. Add 5-6 litres of CCS Super Polymer / Water Solution into a clean bucket.
2. Then add the entire contents of the Pigment Concentrate Pack to the bucket and mix for 1 minute.

3. Slowly and gradually empty one half of the 20kg bag of CCS Resurfacing Compound into the same bucket whilst mixing with a paddle at low speed.

IMPORTANT: This is critical as lumps will form if the dry mixture is added too quickly to the liquid.

4. Slowly and gradually add the remainder of the bag contents and mix. Mix at high speed for a further 5 minutes until homogeneous.

IMPORTANT: This is a critical step, if not mixed for 5 minutes it is likely that the polymer will not be intermixed enough with the mixture and lumps can form.

Allow material to settle for 2-3 minutes to enable air bubbles to escape.

Additional quantities of the diluted CCS Super Polymer solution can be added if the mix consistency is not to the applicators liking.

To ensure consistency of colour and texture it is imperative that the same proportions of CCS Super Polymer, water, Resurfacing Compound and Pigment Concentrate Pack colour are used for the entire job.

It is also recommend that only one person is designated as the mixer and they be responsible for making all mixtures for the job. This assists in ensuring consistency of mixtures on the job.

5. At the completion of mixing each bag, place paddle mixer into a 20 litre cleaning bucket filled with water. Give it a quick spin to remove Resurfacing Compound from mixer blades.
6. Pour contents directly from the bucket to the surface, trowelling into corners and wall edges. Use a long handled rubber squeegee or roller to spread the CCS Resurfacing Compound over the concrete in an even manner. Approximate coverage for the base coat should be 15m² per bag mixture. If necessary, trowel out high points.
7. Allow the base coat to dry (approximately 1 - 2 hours with ambient temperatures at 20C^o).
8. Unwanted trowel and squeegee marks can be removed by rubbing with a carborundum block or a light grind.
9. Sweep clean ready for the application of stencils or tapes.

APPLICATION RATES

The rate of application depends on the service conditions that the concrete will be exposed to. Recommended rates are as follows:

Domestic driveways, paths and car parks with 3kg/m² for vehicular traffic under 3 tones.

Busy shopping footpaths and malls with heavy 4kg/m² pedestrian traffic.

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STYLEPAVE APPLICATION

There are numerous standard stencil designs in the CCS range including brick, cobble, tile and rock.

Further designs can be made utilising fibrous tape or custom made stencils.

After laying a base coat, stencils are applied to the surface and then subsequently sprayed with the coloured CCS Resurfacing Compound solution.

A second or third CCS Resurfacing Compound may be applied. When the topping is dried, stencils may be removed.

Depending on surrounding climate conditions, the dried topping can be sealed with CCS Hardseal or CCS Hibuild Enduro. A second coat of sealer should be applied on a subsequent day when the topping is fully dried.

PLAIN COLOUR FINISH

The CCS Resurfacing System is also ideal for providing a flat coloured surface over existing concrete.

1. After adequate cleaning of the concrete, prime the concrete surface with CCS Super Polymer and water.
2. Within an hour, apply the base coat. Refer to Mixing Instructions section.
3. The base coat can be achieved using a trowel, squeegee, or hopper gun depending on the desired texture. Allow to dry completely before applying the top coat.
4. Apply the top coat using a hopper gun or trowel depending on desired finish.
5. Depending on the climate conditions, the dried topping can be sealed with CCS Hardseal or CCS Hibuild Enduro.

ABRASION RESULTS

The CCS Stylepave Overlay System provides a very tough coating to existing concrete. Typical abrasion resistance is as follows:

CONCRETE SURFACE TYPE	ABRASION INDEX STANDARD	ABRASION WITH CCS HARDENER	M20 TEST RESULT
Pedestrian	7	0.9	Pass
Driveways	7	0.9	Pass
Footpaths	5	0.9	Pass
Pedestrian Mall	3.5	0.9	Pass
Roads	5	0.9	Pass
Industrial	7	0.9	Pass

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.

ABRASION RESULTS SUMMARY

Wearing of the surface finished with CCS Resurfacing Compound was very minimal and is far less than the loss allowed in accordance with AS/NZ 4456.9: Determination of Abrasion Test.

TYPICAL COMPRESSIVE TEST

Results of tests conducted on crushing cubes made from CCS Resurfacing Compound reveal the following typical strengths.

- One Day 7MPa
- Three Days 33MPa
- 28 Days 56MPa

Summary: High early and long term strengths ensure a strong abrasive resistant surface finish is achieved.

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.