

A guide to some of the finishes that can be used to add character to coloured concrete



Rich colours made to endure

Only pure, high tint strength, long lasting pigments are used to create CCS Pigment Concentrates.

CCS pigments consist of blends of synthetic iron oxides, titanium dioxides, chrome oxides and cobalt aluminium with maximum resistance to UV light and the aggressive alkaline conditions in concrete. They are manufactured in accordance with our Quality System certified to ISO 9001 and conform to the relevant world standards for concrete pigments.

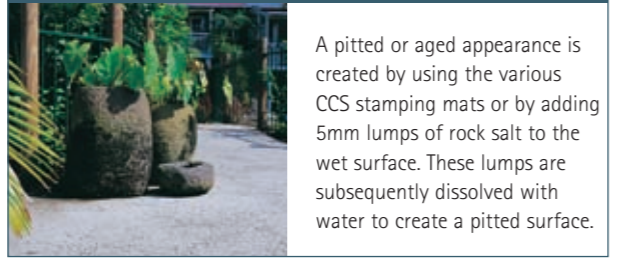


BROOM AND COVING TROWEL FINISHES



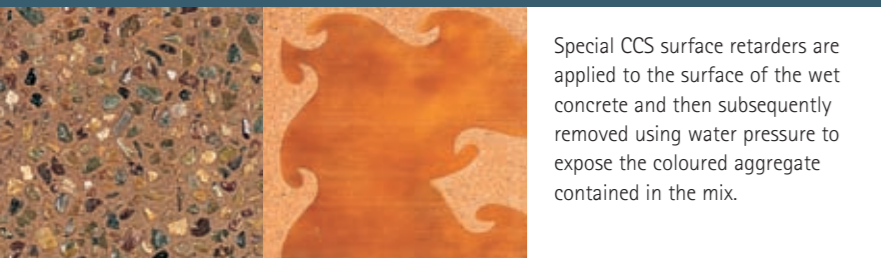
The use of a broom or coving trowel to finish the concrete creates a textured surface.

ROCK SALT



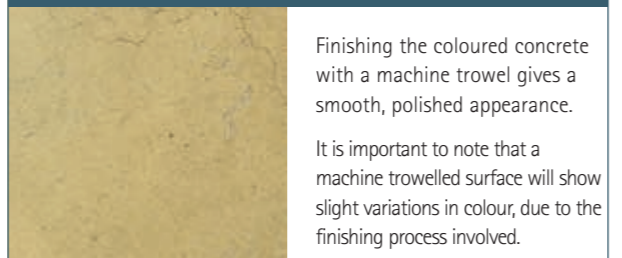
A pitted or aged appearance is created by using the various CCS stamping mats or by adding 5mm lumps of rock salt to the wet surface. These lumps are subsequently dissolved with water to create a pitted surface.

EXPOSED AGGREGATE



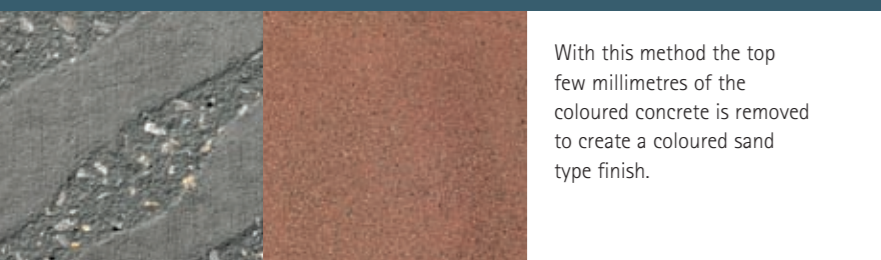
Special CCS surface retarders are applied to the surface of the wet concrete and then subsequently removed using water pressure to expose the coloured aggregate contained in the mix.

MACHINE TROWEL FINISH



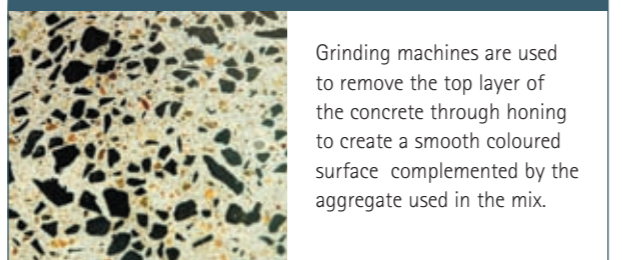
Finishing the coloured concrete with a machine trowel gives a smooth, polished appearance. It is important to note that a machine trowelled surface will show slight variations in colour, due to the finishing process involved.

SAND BLAST FINISHES



With this method the top few millimetres of the coloured concrete is removed to create a coloured sand type finish.

POLISHED OR HONED CONCRETE



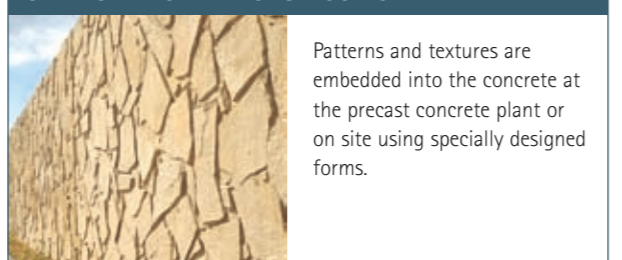
Grinding machines are used to remove the top layer of the concrete through honing to create a smooth coloured surface complemented by the aggregate used in the mix.

SAW CUTS OR GROOVED FINISH



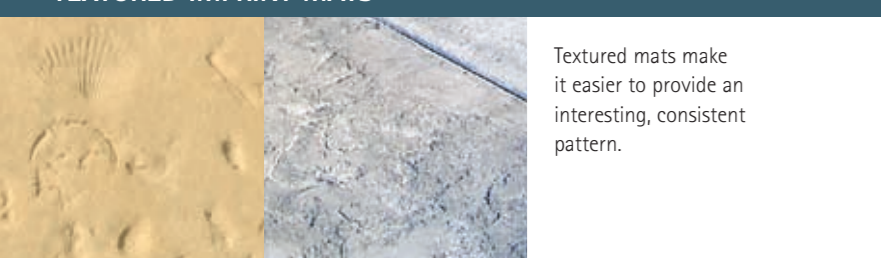
The coloured concrete is given further definition by creating geometric patterns using grooved joint lines or by saw cutting the surface at a later date.

OFF FORM OR PRECAST CONCRETE



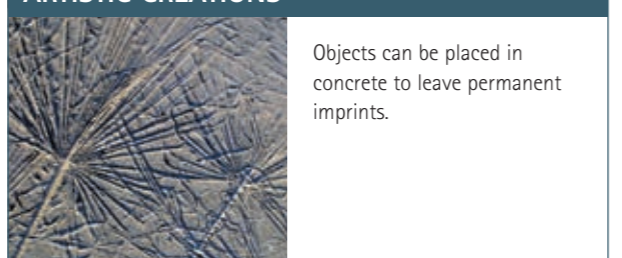
Patterns and textures are embedded into the concrete at the precast concrete plant or on site using specially designed forms.

TEXTURED IMPRINT MATS



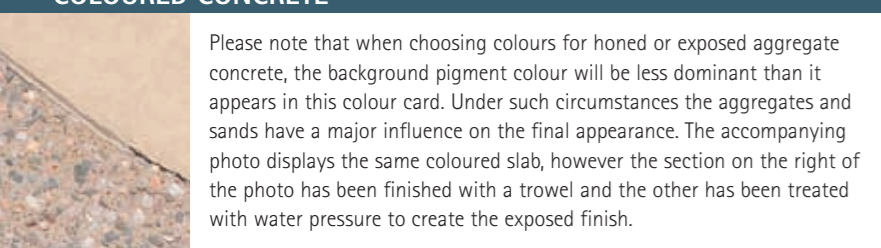
Textured mats make it easier to provide an interesting, consistent pattern.

ARTISTIC CREATIONS



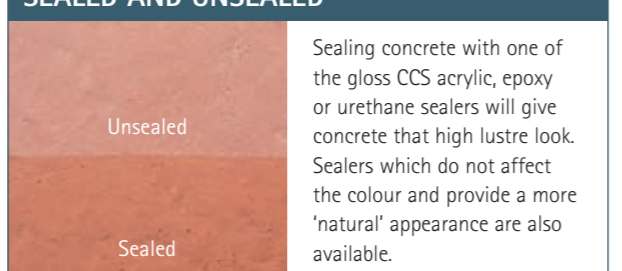
Objects can be placed in concrete to leave permanent imprints.

COLOUR CHANGES RESULTING FROM HONING OR EXPOSING COLOURED CONCRETE



Please note that when choosing colours for honed or exposed aggregate concrete, the background pigment colour will be less dominant than it appears in this colour card. Under such circumstances the aggregates and sands have a major influence on the final appearance. The accompanying photo displays the same coloured slab, however the section on the right of the photo has been finished with a trowel and the other has been treated with water pressure to create the exposed finish.

SEALED AND UNSEALED



Sealing concrete with one of the gloss CCS acrylic, epoxy or urethane sealers will give concrete that high lustre look. Sealers which do not affect the colour and provide a more 'natural' appearance are also available.

Colour matching and special colour formulations

As a blender of pigments, we are experts in creating or matching colours for concrete*. Simply forward us a sample of the desired colour (such as a paint swatch, tile or paver) and our fully certified NATA laboratory will match it.

* Due to the size of our mixing equipment, a minimum of 500kg of pigment must be ordered (suitable for approx. 400m² of concrete) to ensure a homogenous mixture is subsequently supplied.



Design ideas for coloured through concrete and concrete resurfacing

For the latest ideas and inspiration in colour through concrete or concrete resurfacing, simply ask your CCS representative or phone your local office for a free copy of the following:-

- CCS Colour Through Concrete Inspirations Booklet for commercial landscapes, buildings and public spaces.
- CCS Colour Through Concrete Residential Ideas Booklet; and the
- CCS Stylepave Resurfacing Brochure.

Creating coloured concrete using the CCS prepack system

- 1 PREFORMULATED BAGS OF CCS PIGMENT CONCENTRATES ARE ADDED TO THE CONCRETE TRUCK AT THE PREDESIGNATED RATE OF ONE BAG PER CUBIC METRE
- 2 AFTER SUFFICIENT MIXING, COLOURED CONCRETE IS DISCHARGED FROM CONCRETE TRUCK
- 3 COLOURED CONCRETE IS SCREEDED AND FLOATED
- 4 A CLOSE UP OF THE FINAL RESULT AFTER THE SURFACE HAS BEEN TREATED WITH WATER PRESSURE TO EXPOSE THE AGGREGATES AND COLOUR WITHIN THE CONCRETE MIX.

YOUR COLOURED CONCRETE SUPPLIER

Specify your colour and sealer from the one source



For an optimum result all coloured concrete surfaces should be coated with a concrete sealer.

Choose from our extensive range of CCS and ACS Sealers to achieve a gloss or matt look or an unchanged, natural appearance using one of our penetrating sealers.

In addition to enhancing the colour, the use of a sealer reduces the damage created from the ongoing ingress of dirt, grease and grime while inhibiting the incidence of unsightly efflorescence.

Call the industry specialists for comprehensive advice

Concrete Colour Systems, Applied Concrete Solutions and Quartzon form the construction products division at River Sands Pty Ltd.

We are proudly 100% Australian owned and since our inception in 1974 have specialised in providing excellent products and creative solutions to the construction industry.

Some of our other complementary products include:-

- Surface colours and texturing tools for new and existing concrete.
- Commercial coatings, repair mortars, renders and tile adhesives.
- Coloured interior pool renders for domestic and commercial pools.

CCS CONCRETE COLOUR SYSTEMS
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brilliantcolours
outstanding results



colour card



CCS Pigment
Concentrates for full
depth colouring
of concrete
 Current from 2006

colour card
brilliantcolours
outstanding results

Rich pigment blends for full depth colouring of premix and precast concrete



COLOURS FOR GREY CONCRETE • COLOURS FOR GREY CONCRETE

CCS OYSTER	CCS PEWTER	CCS BRICK RED
CCS GHOST GUM	CCS ALPINE	CCS ULURU
CCS ONYX 21	CCS PAPERBARK	CCS MULBERRY
CCS BLACK 21	CCS SPINIFEX	CCS CABERNET
CCS BLUESTONE	CCS GECKO	CCS JARRAH
CCS LIQUORICE	CCS MYSTERY	CCS CHOCOLATE
CCS PANTHER	CCS DRIFTWOOD	CCS KELP

COLOURS FOR GREY CONCRETE • COLOURS FOR GREY CONCRETE

CCS CANVAS	CCS PUMICE	CCS SUNTAN
CCS DESERT BUFF	CCS JURASSIC	CCS BISCUIT
CCS YORK STONE	CCS LYCHEE	CCS CARAMEL
CCS MOROCCO	CCS MANGROVE	CCS GIPSY
CCS HONEYCOMB	CCS FIG	CCS TOBACCO
CCS BREADCRUMB	CCS LIZARD SKIN	CCS POTTERY
CCS SANDPLAIN	CCS CIGAR	CCS MEXICO

COLOURS FOR GREY CONCRETE • COLOURS FOR GREY CONCRETE

CCS RAFFIA BEIGE	CCS BONSAI	CCS STONE BEIGE
CCS LIMESTONE	CCS EUCALYPTUS	CCS FUDGE
CCS CORN	CCS KAKADU	CCS EARTH BROWN
CCS GOLDEN BRONZE	CCS CACTUS	CCS GRAPE

COLOURS FOR GREY CONCRETE

COLOURS FOR OFF-WHITE CONCRETE		
CCS KINGFISHER	CCS POLLEN	CCS CASHMERE
CCS SNOW	CCS PORCELAIN	CCS MACADAMIA

Please note that your concrete supplier may not be able to provide the above colours unless they have 'off-white' cement available at the nominated plant.

How to duplicate the CCS colours displayed in this chart in concrete
 Trowel finished concrete in the above colours can be produced by adding one pre-formulated bag of CCS Pigment Concentrate for each cubic metre of 20/25 MPa strength concrete. Higher strength concrete will require the larger CCS bags. Due to regional differences in cement and aggregates, as well as slump and finishing techniques, (such as exposed aggregate and honed finishes) variations to the above colours can occur. **Where an exact colour is essential, representative job samples using the intended raw materials and finishing techniques should be completed and then inspected once the sample has cured for 14-30 days. Please refer to the 'Guidelines For Use' Data Sheet (available at www.concretecoloursystems.com.au or by phoning 1800 077 744) for suggested placement methods.**

Suggested Specification
 Concrete is to be integrally coloured with Concrete Colour Systems _____ Pigment Concentrate (ph. 1800 077 744 or closest city ph. no.).
 One pre-formulated bag is to be added for each cubic metre of _____ MPa, using _____ cement. All surfaces should be finished uniformly - do not over-trowel. Do not cure with plastic sheeting, membrane paper or intermittent wetting and drying. Caution should be taken to ensure any curing compound is suitable for both structural and aesthetic purposes.



brilliant colours
outstanding results