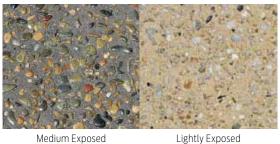
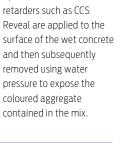
A guide to some of the finishes that can be used to add character to coloured concrete

Exposed aggregate



Special CCS surface retarders such as CCS Reveal 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



A pitted or aged appearance is created by using the various CCS stamping mats or by adding 10mm lumps of rock salt to the wet surface. These lumps are subsequently dissolved with water to create a pitted

Broom and coving trowel finishes



With honed concrete,

the top layer of the

matt/satin surface Polished concrete is

is extremely glossy and

reflective.

grinding machines remove

concrete to create a smooth

The use of a broom or

coving trowel to finish the

concrete creates a textured

Honed Concrete and Polished Concrete



concrete that is honed and then polished. The concretis machined for a longer POLISHED period of time using finer abrasives until the surface

Saw cuts or grooved finish



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

Artistic Creations



Objects can be placed n the concrete to leave permanent imprints.

Rock Salt



Machine trowel finish



polished appearance. It is important to note that a machine trowelled surface will show slight variations in colour, due to the finishing process involved.

inishing the coloured

concrete with a machine

trowel gives a smooth,

Sand blast finishes



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

Off form or precast concrete



atterns 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.

How to replicate the latest CCS colours

The enclosed swatches depict the colour that can be achieved using the prescribed dose rate of CCS Pigments in concrete using a steel trowel finish.

Variations in colour between the enclosed swatches and the actual concrete colour achieved can occur due to differences in finishing techniques, curing methods, environmental conditions, the type and slump of concrete as well as the raw

Where an exact colour is essential, representative job samples using the intended raw materials; finishing techniques and sealers should be completed and then inspected once the sample has cured for 14 to 28 days.

Colour variations between swatches and exposed aggregate and honed concrete surfaces.

The top layer of coloured concrete is removed when exposed aggregate or honed concrete finishes are created. Consequently the colour of the concrete will generally appear more 'earthy' compared to the enclosed colour swatches. This is due to the dominance of the sands and aggregates used in the concrete mixture.

For more information regarding the optimum placement of coloured concrete, please refer to our Guidelines for Integrally Coloured Concrete on our website www.concretecoloursvstems.com.au

High strength pigments made to endure

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

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



CCS pigment concentrates are UV and weather resistant.

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 (or sometimes two, depending on the colour) per cubic metre.



2 After sufficient mixing, coloured concrete is discharged from the concrete truck.



3 Coloured concrete is screeded and



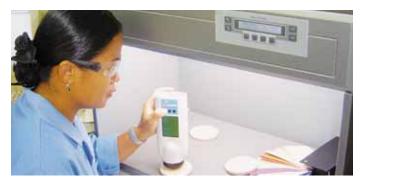
4 A close up of the final result.

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.

YOUR COLOURED CONCRETE SUPPLIER



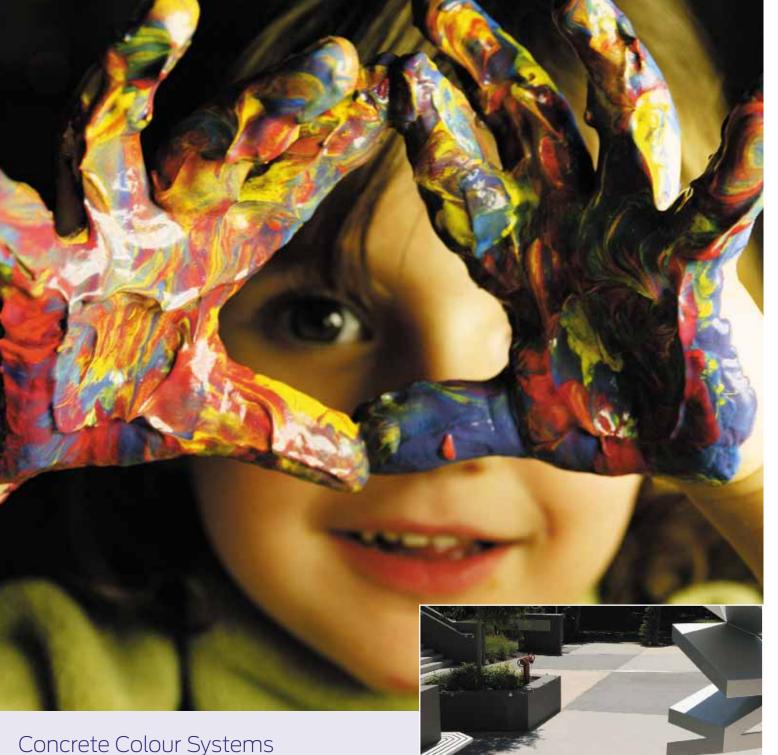


Concrete Colour Systems A Division of River Sands Pty Ltd Melbourne Telephone 03-9311 9225 Helpline 02-9756 1711 Warehouse Telephone 02-9677 1056 risbane Telephone 07-3287 6444 Adelaide Telephone 1800 077 744 **Perth** Telephone 0423 023 164 CONCRETE Tasmania Telephone 03-9311 9225 Email ccscolour@riversands.com.au COLOUR Email Coscoolements 1800 077744



Colour palette 2010

colours to inspire any imagination!



CCS Sealers – purpose designed for enhancing the performance of coloured concrete

For optimum long term results all coloured concrete should be treated with a CCS penetrating or surface coating sealer.

Site conditions, Green Star requirements, aesthetics, and the desired level of chemical and abrasion resistance, will collectively determine which CCS sealer is the ideal coating for the particular project at hand.

Please note that there is no one sealer that is perfect for all applications, however at least one of our CCS sealers will be suitable in each application. The tables on this page are an excellent starting point for specifying the ideal CCS sealer for a variety

A brief overview of the most popular CCS exterior sealers

CCS Stainblock

A premium strength, modified silane sealer providing maximum resistance to oils and stains generated from food and beverages, chewing gum, water and salt. Its penetrating nature creates a natural looking finish without any detrimental effect on slip resistance.

CCS Streetscape Sealer (water based)

A 'Green Star Building Code' compliant, water based, penetrating silane-siloxane sealer providing resistance to oils and stains generated from food and beverages, chewing gum, water and salt.

CCS Natural Seal Supreme H/V

An economical penetrating silane-siloxane sealer that provides resistance to the ingress of water and salt.

CCS Hi-Build Enduro

A high solids, durable acrylic sealer that enhances the colour of the concrete while providing a long life gloss.

Recommended sealers for exterior applications lication Recommended Sealer Type of Sealer Low VOC

			Green S Complia
Streetscapes	CCS Streetscape Sealer	Penetrating	~
Bike Tracks	CCS Streetscape Sealer	Penetrating	~
Pedestrian Paths	CCS Streetscape Sealer	Penetrating	~
Building surrounds	CCS Streetscape Sealer	Penetrating	~
Roadways	CCS Streetscape Sealer	Penetrating	~
Honed Concrete	CCS Streetscape Sealer	Penetrating	~
Concrete Paving	CCS Streetscape Sealer	Penetrating	~
Exposed Aggregate	CCS Streetscape Sealer	Penetrating	~
Shopping Centre surrounds	CCS Stain Block	Penetrating	
Alfresco Dining Areas	CCS Stain Block	Penetrating	
Honed Concrete and Terrazzo (food areas)	CCS Stain Block	Penetrating	
Concrete Paving food areas	CCS Stain Block	Penetrating	
Natural Porous Stone	CCS Stain Block	Penetrating	
Vertical Walls	CCS Natural Seal Supreme H/V	Penetrating	
Coloured Concrete and Exposed Aggregate – Domestic	CCS Hi-Build Enduro	Coating	

CCS sealers for interior applications

There are four CCS sealers to choose from when sealing interior honed or polished concrete surfaces.

The level of gloss and the depth of coating protection desired, will determine the sealer system that is used. A Platinum rating of 'four stars', for example, denotes a high build, extremely lustrous coating, whereas a Platinum rating of 'one star'

The four star and three star finishes consist of a combination of an epoxy sealer overcoated with the CCS Decrathane polyurethane sealer. The epoxy sealer provides the high gloss and high build coating whilst the CCS Decrathane provides the protection

Where a high gloss and high build look is not desired, the CCS Decrathane Semi-Gloss or Satin sealers can be used in a minimum of two coatings to provide a single sealer



Recommended sealers for interiors

High High

CCS Ultra Epoxy

base coating.

CCS Decrathane

Satin Sealer as

CCS Ultra Epoxy

water based

base coating.

CCS Decrathane

Satin Sealer as

CCS Decrathane

CCS Decrathane

Semi Gloss

top coat.

ton coat

100% Solids as

denotes a more natural, low sheen finish.

against UV light, scratching and marring.

The table to the right lists the options.



As noted in the table, all of the above CCS sealers contain low volatile organic compounds (VOC's) and meet Green Star Building Code IEQ-13 requirements.

Semi Regular 2

Concrete Colour Systems also supply a range of compatible polishes and cleaners to ensure the above sealer systems retain their beauty.

Note:- For detailed sealer specifications go to www.concretecoloursystems.com.au or phone your nearest CCS office.

Rich pigment blends for full depth colouring of grey concrete







CCS DESERT BUFF*



CCS GOLDEN BRONZE















CCS PEWTER

CCS MULBERRY



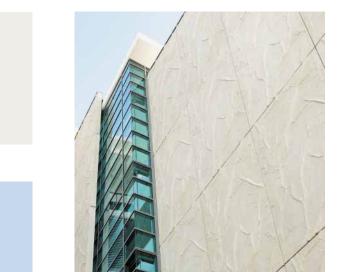


CCS LYCHEE

CCS ELEPHANT







Pastel shades using

off-white concrete















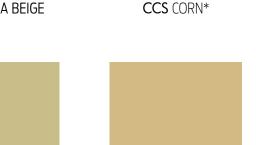


CCS BUTTERSCOTCH

Please note that due to space limitations at concrete plants, 'off white' concrete is only available from a small number of concrete plant sites.









CCS BRICK RED



CCS DRIFTWOOD



CCS SADDLE

CCS BISCUIT



CCS CANYON



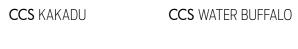
CCS EUCALYPTUS



CCS YORKSTONE









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 CCS KELP* **CCS** BOOMERANG **CCS** CHEROKEE **CCS** SAVANNAH **CCS** SUNDANCE **CCS** FIRECRACKER* structural and aesthetic purposes.

