

CCS PIGMENT CONCENTRATES

March 2022

DESCRIPTION

CCS Pigment Concentrates are ideal for colouring any new concrete project where a full depth colour finish is required. Pedestrian malls, bikeways, roadways, interior house slabs, driveways and exposed aggregate finishes can all be coloured with CCS Pigment Concentrates.

As the full thickness of concrete is tinted, long term colour performance is maintained even if the surface layer is worn, chipped or damaged.

CCS Pigment Concentrates can also be used to colour new mortar, grout, asphalt and other cementitious based materials.

TINT STRENGTH AND WEATHER RESISTANCE

Only fine particle synthetic powder pigments with high tinting strength and maximum resistance to UV light are used in CCS Pigment Concentrates.

CCS Pigment Concentrates are combinations of synthetic iron oxides, titanium dioxides, chrome oxides & cobalt aluminium spinel.

These fine particle pigments are well proven and are weather resistant, lightfast and suitable for the alkaline conditions of concrete.

This ensures a rich concrete colour is generated that will withstand the aggressive effects of weather over time. CCS Pigment concentrates are manufactured in accordance with our quality system verified to ISO 9001 and conform to the relevant world standards.

PRE-WEIGHED

CCS Pigment concentrates are pre-weighed in lots sufficient for colouring one cubic metre of concrete.

The quantity of pigment in each bag varies depending on the colour required and the strength of the concrete mix. This eliminates the need for concrete producers to weigh pigment at their site and minimises the chances of batching errors.

Standard bag sizes are typically 9kg and 12kg, colour dependant.

PACKAGING

CCS Pigments are packed in unique fast melt water soluble plastic bags for clean and easy mixing at the concrete plant.

They dissolve on contact with moisture ensuring fast and full dispersion of colour within the agitator bowl.

ADMIXTURES

As minimal additives are used in CCS colours, the concrete designer is free to specify and use the admixtures familiar to and proven in the concrete suppliers materials.

These admixtures should be added at the batching plant at the usual dosage and in the usual manner.

Caution should be taken with calcium chloride accelerators and third generation poly-carboxide plastizers as these will change final colour.

CUSTOM COLOUR MATCHING

In addition to the samples shown in our colour chart special pigment blends can be formulated to match your own particular colour requirements.

Samples of the desired colour should be forwarded to our Brisbane office for colour matching in our NATA registered laboratory. A period of 4–5 working days is required for colour matching.

Minimum quantities apply for custom colours.

INSTRUCTIONS FOR USE

Batching – Plastic Water Soluble Bags

1. Open the outer paper bag and remove plastic bag packed with pigment. The plastic bag is soluble in water. Dispose of the outer paper bag.
2. Add the plastic water soluble bag full of pigment to the concrete mixer in conjunction with a minimum of 40L of water and aggregate. Mix at high speed for a minimum of 3 minutes prior to adding the remaining dry materials and water
3. Mix for 10 minutes at high speed prior to discharging colour concrete on site. If delivery times are lengthy or mixing has occurred at low speed during transport, when arriving on site, mix at high speed for one minute prior to discharging coloured concrete.
4. Ensure the same water cement ratio and raw materials are used for each load.

Placement

1. Place and consolidate all coloured concrete over a well drained and consolidated subgrade.
2. The concrete slump should be kept consistent at 100mm or less and should not exceed 125mm for any load.
3. No water should be added after a portion of the load has been discharged.

Finishing

1. For colour uniformity, consistent finishing practices should be used.
2. Do not add water to the concrete while placing or finishing or overtrowel, as this will cause discolouration.
3. All final hand finishing should be done in the same direction.
4. To prevent surface blemishing do not cure with plastic sheeting or intermittent wetting and drying.

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5. To assist with curing, apply two coats of CCS Same Day Sealer after surface water has evaporated.
6. This special sealer penetrates into the concrete pores and in so doing minimises the flow of free limes to the surface. This prevents the white blushing effect called efflorescence.
7. It also protects the concrete surface from the ingress of dirt and grease.

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.concretecoloursystems.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 causes 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.