



CCC COLOR HARDENER

DESCRIPTION

CCC color hardener is a ready to use, streak free, dry shake, colored or concrete grey hardener for use on interior and exterior concrete flatwork.

CCC color hardener has been specially formulated for ease of application and integration on to suitably prepared and freshly laid concrete slabs.

CCC color hardener has a variety of uses, including the creation of stamped or imprinted concrete, decorative interior retail and commercial and industrial floors.

Where ccc color hardener is used to create the look of stone, slate, brick or tile by the stamping process, it should be used in conjunction with ccc powder release agent and concrete seal in accordance with the manufacturer's recommendations.

CCC color hardener is produced from an exclusive mix design incorporating quartz aggregates, opc, light and shade resistant natural and synthetic oxides and other proprietary admixtures. The product is free from fillers and extenders and is produced under strict, quality controlled conditions. CCC color hardener must not be applied during rain or when rain is forecast or temperatures are below or likely to fall below 6oc within a 24-hour period.

PROPERTIES

- Easy application
- Streak free, non fading
- Denser, more durable surface
- Improved abrasion resistance
- Can be antiqued or acid stained
- Light and brighter color applications

SUB-BASE PREPARATION

The sub-base should be well drained and have adequate and uniform load bearing characteristics. To reduce the likelihood of cracking, the sub-base must be graded to ensure an even thickness of concrete. At the time of concrete placement, the sub-base must be moist but have no standing water and should be well consolidated and frost-free.

If necessary, the sub-base should be dampened with water in advance of concreting, to avoid uneven suction and premature drying out of the underside of the slab.

CONCRETE MIX DESIGN

The concrete shall contain a minimum of 350 kg of cement per m³.

All fine and course aggregates must be non-reactive and free of deleterious particles. The water content should be the minimum practical and the maximum slump should not exceed 100mm. All concrete should be matched by the same plant where possible and cement should come from a single source from start to completion of the area being concreted. Where the slab will be subject to freeze/thaw situations an air entrainment agent is recommended, in a dose recommended by the manufacturer.

CAUTION: CALCIUM CHLORIDE AND/OR CALCIUM CHLORIDE BASED PRODUCTS MUST NEVER BE USED WITH OR IN COLORED CONCRETE.

In cooler weather a non-chloride accelerator may be used.

APPLICATION

CCC color hardener should be applied to the surface of the freshly placed concrete once any bleed water has disappeared and the floating process does not disrupt the level of the slab. Premature application may affect durability and require a higher dosage rate.

CCC color hardener must never be used to dry excess bleed water.

Using the dry-shake method, the material should be broadcast uniformly across the surface, normally in two applications. Two thirds of the material should be used in the first pass, with the final third being applied in the same manner but at 90 degrees to the first. Volume yield will depend on color choice and final use of the slab.

Lighter colors will require more material to be used and darker colors, less. It is recommended that the total number of m² being completed in each pour is calculated, and the correct number of pails placed equally around the slab in advance of application.

COLORS

CCC color hardener is available in 24 standard colors. Our laboratories may formulate custom colors but minimum volume limitations may apply. Please ask for information if these are required.

RELATED PRODUCTS

- IW-EC

- Cement-Scud Sacrificial protective gel

Please, see Technical data sheets

COVERAGE

CCC color hardener has an average coverage rate 3,5 – 4,0 kg per m².

Lighter colors may need more material to cover the darker color of the concrete.

These ratios are the minimum requirement for the color hardener to increase impact and abrasion resistance. Heavy traffic or industrial areas should use a minimum of 56- kg per m².

PACKAGING

CCC Color Hardener is packaged in convenient 25kg, moisture resistant buckets. This type of packaging makes storage and transportation quicker and cleaner with little or no damage to the product.

STORAGE

CCC color hardener should be kept in a safe place and the seal should not be broken until use. Shelf life is approximately 2 years.

WARRANTY

CCC color hardener is not intended for public use, it is intended for use by experienced and trained concrete contractors. When used to the manufacturers guidelines, you should expect a uniformed color. CCC has no control over the use of materials in the field. If there is a failure within our manufacturing tolerances, CCC will only be responsible for the cost or the replacement of the materials proven to be defective.

The end user shall be responsible for determining product suitability and assumes all risk and liability.

SUGGESTIONS AND WARNINGS

Please read data sheets of the products CCC release agent before use.

IMPORTANT:

All information contained in this data-sheet is based on the best practical and laboratory expertise. The customer is responsible for checking the product is suitable for use. The producer does not accept any responsibility arising from wrong applications. We recommend testing the products on small surfaces before use. This data-sheet replaces and annuls the previous ones. Data might be changed anytime. We also remind you that CCC products are for professional use and CCC provides customers with training opportunities upon request. Whoever uses these products without authorization, shall take full personal responsibility and at their own risk.