

## COLOUR HARDENER

### Colour hardener for stamped concrete floors.

#### DESCRIPTION

IDEAL WORK Colour Hardener is a ready to use, streak free, dry shake, coloured or concrete grey hardener for use on interior and exterior concrete flatwork.

IDEAL WORK Colour Hardener has been specially formulated for ease of application and integration on to suitably prepared and freshly laid concrete slabs.

IDEAL WORK Colour Hardener has a variety of uses, including the creation of stamped or imprinted concrete, decorative interior retail and commercial and industrial floors.

Where IDEAL WORK Colour Hardener is used to create the look of stone, slate, brick or tile by the stamping process, it should be used in conjunction with IDEAL WORK Powder Release agent and IDEAL SEALER in accordance with the manufacturer's recommendations.

IDEAL WORK Colour 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.

IDEAL WORK Colour Hardener must not be applied during rain or when rain is forecast or temperatures are below or likely to fall below 6°C 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 colour applications

#### SUB-BASE APPLICATION

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 m<sup>3</sup>. All fine and coarse 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 batched 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 COLOURED CONCRETE. In cooler weather a non-chloride accelerator may be used.

## APPLICATION

IDEAL WORK Colour 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.

IDEAL WORK Colour 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 colour choice and final use of the slab.

Lighter colours will require more material to be used and darker colours, less. It is recommended that the total number of m<sup>2</sup> being completed in each pour is calculated, and the correct number of pails placed equally around the slab in advance of application.

## COLOURS

IDEAL WORK Colour Hardener is available in 24 standard colours shown on IDEAL WORK'S colour chart. Our laboratories may formulate custom colours but minimum volume limitations may apply. Please ask for information if these are required.

## COVERAGE

Ideal Work Colour Hardener has an average coverage rate 3,5 - 4,0 kg per m<sup>2</sup>. Lighter colours may need more material to cover the darker colour of the concrete.

These ratios are the minimum requirement for the colour hardener to increase impact and abrasion resistance. Heavy traffic or industrial areas should use a minimum of 5-6 Kg per m<sup>2</sup>.

## PACKAGING

Ideal Work Colour 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

Ideal Work Colour Hardener should be kept in a safe place and the seal should not be broken until use. Shelf life is approximately 1 year.

## WARRANTY

Ideal Work Colour 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 colour. Ideal Work has no control over the use of materials in the field. If there is a failure within our manufacturing tolerances, Ideal Work 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 suitable and assumes all risk and liability.

## SUGGESTIONS AND WARNINGS

Please read data sheets of the products POWDER RELEASE AGENT, IDEAL SEALER, IDEAL BINDER 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 Ideal Work products are for professional use and Ideal Work provides customers with training opportunities upon request. Whoever uses these products without authorisation, shall take full personal responsibility and at their own risk.

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