

## 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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## IDEAL SEALER

Clear acrylic solvent based sealer.

### DESCRIPTION

IDEAL SEALER is a clear, acrylic; solvent based sealing and curing membrane, specifically designed for curing, sealing and protecting all types of decorative and standard concrete surfaces. The sealer can also be used to protect and bring back the beauty of existing decorative and plain concrete.

IDEAL SEALER has been formulated using high molecular weight acrylic co-polymer resins. IDEAL SEALER is a non-yellowing, non-styreneated, clear sealer that is resistant to oil grease, petroleum products, de-icing salts, UV light, wet and dry abrasions and many household chemicals and foodstuffs. The chemical may vary with the condition of the concrete, surface preparation, method of application and length of time of exposure to the chemical. Where specific resistance is required to a known chemical, a sample should be prepared with the materials involved to determine if the sealer is suitable.

IDEAL SEALER is helpful in preventing concrete dusting and spalling and in reducing the likelihood of plastic shrinkage and cracking caused during curing. Surfaces sealed and protected with IDEAL SEALER are easier to clean and maintain than unsealed concrete.

IDEAL SEALER contains specially formulated resins and solvents that are designed for maximum penetration into the concrete surface. IDEAL SEALER greatly enhances the rich colours of IDEAL WORK Colour Hardener and IDEAL WORK Powder Release and many other decorative concrete finishes, whilst simultaneously creating a protective barrier.

Ideal Sealer is a slightly viscous clear liquid available in Medium, Regular and Superior50 solids that give varying degrees of performance in line with their contents. Ideal Sealer Antiskid (Slip-resistant) and Ideal Sealer Antiquing (give antiqued effect to stamped concrete) complete the line of Ideal Work sealers. In addition, a matting agent is available. If added to Ideal sealers it gives a matt effect to all the treated surfaces.

### PROPERTIES

- Easy application
- Cure & Seal
- High to Medium Solids
- Easy-to-Apply
- High Coverage Rates
- Can Be Spray Applied

### APPLICATION

Stir well before use.

IDEAL SEALER should be applied in two coats by an airless sprayer or by roller. The second coat should be applied after the first has dried, which is usually the next day.

Application should only be onto concrete surfaces that are completely dry and free of curing agents, dirt, oil, grease, paints, waxes and any other compounds that may prevent penetration of and adhesion to the surface.

IDEAL SEALER should never be applied during rain or when rain is forecast within the next 24 hours.

#### LIMITATIONS

IDEAL SEALER should only be used on concrete surfaces. It should never be used in areas subject to continuous water submersion, chemical exposure, concentrated abrasion and scratching, or metal wheeled traffic.

#### COVERAGE

IDEAL SEALER has a coverage rate of approximately 7 - 8m<sup>2</sup> per litre per coat and should be applied in two coats. Coverage will depend on the method of application and the porosity and texture of the concrete.

#### PACKAGING

IDEAL SEALER is packaged in 20 litre containers that should be protected from freezing conditions. If IDEAL SEALER becomes frozen and then thaws, it must not be used.

#### STORAGE

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

#### WARRANTY

Ideal Sealer is not intended for public use, it is intended for use by experienced and trained concrete contractors. 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 suitability and assumes all risk and liability.

#### SUGGESTIONS AND WARNINGS

Please read data sheets of the products COLOUR HARDENER, POWDER RELEASE AGENT before use.

##### IMPORTANT:

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## POWDER RELEASE AGENT

Colour release agent for decorative concrete floors.

### DESCRIPTION

Poweder Release Agent is ready to use, streak free and powder formulated to be easily applied onto the surface of colored or plain concrete.

IDEAL WORK Powder Release Agent is broadcast over the surface of freshly placed coloured-concrete floors, before imprinting with stamps or other texturing tools or rollers. It forms a bond-breaking barrier that helps prevent the tools from sticking to the fresh concrete and marring its fragile surface.

During the process, a portion of the coloured antiquing release becomes embedded in the surface, where it is trapped by the hardening concrete. When the surface is subsequently washed and sealed, an attractive, variegated, mottled, and antiqued appearance is obtained, with colors ranging from that of the underlying concrete to that of the antiquing release, with mixtures of the two most likely.

Poweder Release Agent is a finely powdered material produced by a proprietary manufacturing and inter-grinding process. Poweder Release Agent are light and fast, blended with high-speed dispersing equipment, and are element resistant and free from any fillers or extenders. The colouring agents are lime-proof and have maximum resistance to the effects of sunlight (UV).

### PROPERTIES

- Easy application
- Streak free, non fading
- Prevents concrete build up on tools
- Moisture resistant

### 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 m<sup>3</sup>. 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 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

Powder release agent is specially formulated for use with stamped concrete. We recommend it is used in conjunction with IDEAL WORK Colour Hardener, and Ideal Sealer.

Immediately prior to imprinting, Powder release agent should be hand-broadcast evenly across the surface by the dry-shake method, normally in one broadcasting operation (shake). Imprinting is now possible.

After the concrete has achieved an initial set, as soon as the next day in hot climates and as long as ten days in cold climates, the release agent may be removed by pressure rinsing with a high power pressure rinser (hydrocleaner) and cleaner.

Care should be taken not to remove all Powder release agents from the concrete, especially from grout lines and deeper indentations.

Powder release agent should be periodically cleaned from the stamp mats with PULISTAMP, a professional and specific cleaner, to prevent any possible build up. A good hand cleaner will properly remove the Powder release agent from hands.

## LIMITATIONS

Ideal Work Powder release agent should not be used as the primary colouring method. It should only be used as the secondary colour to antique the Colour Surface Hardener.

## COLOURS

IDEAL WORK Colour Release Agent is available in 18 standard colours, shown on IDEAL WORK's colour chart. Our laboratories may formulate custom colours but minimum volume limitations may apply. Please ask for further information if these are required.

## COVERAGE

Ideal Work Powder release agent has an average coverage rate of 13,6 Kg (1 bucket) per 100m<sup>2</sup>.

## PACKAGING

Ideal Work Powder Release Agent is packaged in convenient 13,6 Kg 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 Powder Release Agent 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 Powder release agent 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 suitability and assumes all risk and liability.

## **SUGGESTIONS AND WARNINGS**

Please read data sheets of the products COLOUR HARDENER, IDEAL SEALER, LIQUID 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 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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