

## MORA STAMP HARDNER

A granolithic concrete material that is floated into fresh screed or concrete which colors, strengthens and creates durable surfaces for concrete floors. It is a special blend of cement incorporating very hard-wearing aggregates, light fast pigments and certain additives which set rock-hard and which has exceptional abrasion resistance. Some cement floor finishing experience is required for the success of this application.

### Purpose:

To provide a hard-wearing, attractive coloring system for the surface of concrete slabs or cement screeds, whether steel floated to a smooth finish or textured, stamped or rolled to obtain different tiled or paved effects.



### Technical Data:

Type	Cement based surface hardener
Color	WHITE & COLERED
Working time after spreading over surface	30 minutes
Initial set	1 hour
Light floor traffic after application	24 hours
Compressive strength (28 days)	As per the screed applied to
Application temperature (ambient)	6 to 25°C
Slab temperature	6 to 25°C
Min application thickness	2mm
Max application thickness	3mm
Density	1.5kg/liter
Protection barriers required	Wind and sun barriers (no contact with product)

### Advantages:

Used in conjunction with Cemcrete's Super Screed it can be used where there are height restrictions between 8mm and 15mm and still achieve good compressive strength and improved abrasive resistance.

Thoroughly colors concrete to a depth of about 2 - 3mm. No risk of color being rubbed off or abraded. No need to repaint. Colors are light fast and alkali proof. It is also good for the imprinting of special and natural patterns.

### Existing Surfaces:

All surface beds should have a damp-proof membrane.

Where Color Hardener is to be applied into a screed that is to be bonded to a concrete slab, these substrates should be integrally sound (no cracking, no crumbling or friability, good compressive strength and good scuff resistance etc.) and of a quality and consistency suitable for application (good mechanical key and level). Cemcrete cannot be held liable should the Color Hardener application be compromised as a result of failure

or de-bonding (adhesion failure) occurring between the substrate and newly applied screed due to deficiencies or lack of surface preparation.

Application over moving joints or cracks can result in cracking and delaminating. All construction, cold joints, structural joints and/ or structural cracks which may be dynamic before and/or after the Color Hardener application must be extended through to the surface of the Color Hardener application in the form of voided joints. All voided joints including saw cuts should be filled with suitable joint filler.

### **Applications:**

Recommended for dusting onto wet concrete or screed when laid prior to floating and/or imprinting. More than one color can be used, depending on the effect desired.

### **Surface Preparation:**

Remove all bleed water. Apply **Color Hardener** to wet concrete or moist screed before final set has taken place.

### **Weather:**

Do not apply if rain or temperatures are expected to fall below 5°C within 5 hours of application. Cover during hot, dry weather to avoid premature drying which will halt the hydration process of the cement and reduce the ultimate strength. Do not allow the covers to lie on the surface as this can result in water marks staining the colored surface.

### **Mixing:**

Use in dry powder form for dusting onto concrete or screed surface before final wood- and steel floating takes place.

### **Masking:**

Mask all areas where there is a risk of splashing and staining and where straight edges are required.

### **Application:**

A single batch should be used to prevent color variation.

### **Concrete base application:**

As soon as the concrete base has been levelled off and wood floated, wait for the excess moisture to settle. Remove all bleed water by sponge (DO NOT add additional cement/concrete to absorb this excess water). The surface should be wet, but not glistening with water.

Apply the **Color Hardener** powder by dry shake hand method, or use a plastic container drilled with 3mm holes for even dispersion, at the rate of about 4 to 5kg/m<sup>2</sup> by dusting directly onto surface and float to obtain an even color. For best results apply in two operations; the first with about 40% of the **Color Hardener** required and, once floated, the balance where necessary. Once the water from the screed has wet back into

the final layer of **Color Hardener** powder added to the surface, finish using a plastic float followed by a held steel trowel to a smooth finish. For power floating refer to your local technical consultant.

### Screed base application:

Screed should be moist, not wet. **TEST:** Take a fist full of material and close your fist tightly so as to “ball” it in the palm of your hand. When you open your hand, the ball should hold its form. Furthermore, a light moisture residue should remain on your hand and should not be glistening wet.

The next step is to mix Cemcrete’s Primer Cote mixed to a paintable slurry using a mixture consisting of 1 volume Flex Bond and two volumes water. Apply the Primer Cote using a block brush and make sure that it is worked into the existing substrate. Whilst this is still wet place the screed material on top of it, then compact and level this material. The Primer Cote must not be allowed to dry before applying the screed material.

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### Imprinting:

Dust Cemcrete’s Colored Release Agent onto smooth finish being sure to cover the whole surface to prevent the mold from sticking. More than one color can be used for different effects. Imprint as desired. Leave to harden for approximately 72 hours, clean off excess Colored Release Agent by sweeping with a soft broom and then wash with a high-pressure hose.

### Curing:

Leave to air cure for 1 day after completion. Damp down with water twice daily for 7 days. This hardening period is to avoid premature drying of the concrete which will reduce the final strength. Allow to cure for a minimum of 14 days before sealing.

For imprinted floors: After imprinting, leave to air cure for 3 days. Wash surface to remove excess Colored Release Agent. Cure by wetting with clean water 3 times daily for 5 days. Leave to dry for a minimum of 7 days.

### Sealing:

The moisture in the floor must be less than 5% prior to sealing. Ensure that the surface is free of any form of laitance or dust etcetera before sealing with a suitable sealer fit for purpose in accordance with the manufacturer’s instructions. Sealers are best applied to a cool surface in multiple thin coats until an even sheen is achieved. Allow sufficient drying time between coats (product specific in accordance with the manufacturer’s instructions). Cemcrete manufacture a wide range of sealers designed for a specific purpose, dry film thickness and durability; (example: for use in wet areas etc.) Various sealers also offer varying final finishes to the surface (e.g. gloss, matt, color change, etc.). Please contact your local representative for the best solution to meet your needs.

### Coverage:

Approximately 10m<sup>2</sup> per 35kg bag.

### Floor Maintenance:

Maintain **Color Hardener** floors with Cemcrete's Crete Care Range of floor care products in accordance with the manufacturer's instructions. Sweeping, mopping and vacuuming is a necessity for all floors irrespective of the final finish. Refer to relevant Crete Care data sheets.

### Storage:

Unopened bags can be stored on slats in a dry shed for 12 months from date of invoice.



### Packaging:

Color Hardener supplied in 35kg bags.



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