

# COLOR HARDENER



Super Stone® Color Hardener is an aggregate powder that allows concrete contractors to create durable vibrant decorative concrete projects. Using a mixture of light-fast color pigments, hard mineral aggregates, and Portland cement, this product creates a surface that is more wear resistant and less permeable to moisture and de-icing chemicals more so than standard concrete. Super Stone® Color Hardeners produce a more intense coloration than integral colors because of its concentration of color on the surface of the concrete.

## RECOMMENDED USAGE

For use on newly poured concrete surfaces where color and durability are specified for stamp impressions or smooth polished surfaces. Super Stone® Color Hardener may be applied for indoor or outdoor use.

## ADVANTAGES

- Durable & Wear Resistant
- Resistant to freezing & scaling due to de-icing salt/chemicals.
- Builds in color & strength eliminating the cost of periodic painting of surface.

## COVERAGE

60 lb Bucket of Light Colors with 2-3 Applications Cover Approximately 60-80 ft<sup>2</sup>

60 lb Bucket of Dark Colors with 2 Applications Cover Approximately 80-120 ft<sup>2</sup>

## SURFACE PREPARATION

Use of Super Stone® Color Hardener primarily takes place with the proper attention to the sub-grade preparation and concrete mix. The sub-grade should be graded uniformly, well drained, and have sufficient load-bearing characteristics to prevent cracking. The concrete mix should contain a minimum of 5½ sacks of cement per cubic yard which is 517lbs per 300 kg/m<sup>3</sup> of concrete. Fine and coarse aggregates should be free of deleterious (reactive) particles and the water content should be held to minimal practical amounts. The concrete mix design should not allow isolation of contents during pumping, placing, or consolidation of the concrete. In the absence of a mix design, a 4" maximum slump is recommended. Water reducing ad-mixtures may be used. Accelerator and decelerator ad-mixes should not contain calcium chloride and super plasticizers (high-range water reducers) should not be used. High levels of fly ash may make it difficult to seat the color hardener and finish properly.

## APPLICATION

Begin with masking off adjacent areas and strategically placing the containers around the areas to be treated. A broadcast dry-shake method is recommended once the concrete has reached a point when the bleed water disappears and the floating process will not influence the level of the surface. One sixty-pound container of Super Stone® Color Hardener should be applied at a rate of 80-120 ft<sup>2</sup> per container. Light colors and heavy-duty service areas require approximately 60 lbs. per 60-80 ft<sup>2</sup>

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To minimize separation of the aggregates and color pigments, broadcast at a level below the knees and lower in windy conditions. The moisture required for working the Color Hardener must come from the concrete to develop proper strength and monolithic bonding. Addition of water to the surface may result in discoloration and reduced durability. Do not use the Color Hardener to bleed dry the surface as this may cause reduced durability and higher coverage rates.

Two applications are normally required for uniform coverage. Broadcast 75% of the material and work it into the concrete with wooden floats or a machine trowel with floats. Broadcast the final 25% of the material in areas in need of touch up then, float again and hand or machine trowel to a specified finish. Avoid hard steel troweling or burnishing as this may cause burning and darkening of the surface especially near the edges and joints.

Super Stone® Texture Mats provide hundreds of different patterns to stamp into a Color Hardened surface and use Super Stone® Release Powder or Super Stone® Bubblegum Liquid Release to aid in the lifting procedure of the mats. Allow the surface to cure and apply two coats of Super Stone® Crystal Clear Low VOC Concrete Sealer to finish the project. \*Average curing time is twenty-eight days for 4" patios and driveways.

## LIMITATIONS

Coverage rates must be followed carefully. Failure to apply enough hardener can result in the reduction of abrasion resistance and underlying concrete exposure when stamping or polishing the surface. Super Stone® Color Hardener is not suitable for self-leveling systems and is not recommended to be used with reactive aggregates or areas where steel wheel traffic is anticipated.

## SAFETY PRECAUTIONS

Use with adequate ventilation. Avoid prolonged periods of time and use gloves to avoid repeated contact with the skin. In case of fire, use foam, dry chemical, carbon dioxide or water fog.

Avoid contact with eyes, skin, and clothing. First Aid: **Eyes**-- In case of eye contact flush right away with large amounts of water for at least 15 minutes and seek immediate medical attention. **Skin**-- Wash the affected area thoroughly with soap and water. **Inhalation**-- If you experience difficulty breathing, remove yourself from the area to obtain fresh air. If symptoms persist or develop, seek medical attention. **Ingestion**-- Do not induce vomiting. Never give anything by mouth to an unconscious or convulsing person. Rinse out the mouth with water.

***Limited Warranty: Since no control is exercised over product use, Super Stone® only warrants that this product is of consistent quality within manufacturing tolerances. Seller's and manufacturer's obligation under this warranty shall be limited to refunding the purchase price of the portion of the material proved to be defective. NO OTHER ORAL OR WRITTEN REPRESENTATION OR STATEMENT OF ANY KIND, EXPRESSED OR IMPLIED, NOW OR HEREAFTER MADE IS AUTHORIZED OR WARRANTED BY SUPER STONE, INCLUDING THOSE OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Super Stone will not be liable for special, incidental or consequential damages, including for delays or lost profits.***

FOR PROFESSIONAL USE

### WARNING!

HARMFUL OR FATAL IF SWALLOWED. KEEP OUT OF THE REACH OF CHILDREN. OVEREXPOSURE MAY CAUSE CHEMICAL PNEUMONIA, DELAYED PULMONARY EDEMA AND

LUNG CANCER IF INHALED, SKIN DRYNESS OR CRACKING, NARCOTIC EFFECTS AND RESPIRATORY IRRITATION.

