



# Tech. & Data Sheet

**PRODUCT NAME**  
**COLOR HARDENER**

Subsidiary of:  
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COLOR HARDENER is a inter grind of color pigments, cement, graded, hard non-reactive aggregates and surface conditioning agents. Only pure lightfast, lime proof and weather resistant pigments are used. COLOR HARDENER is a ready to use dry shake colorant and hardener for concrete. Applied to fresh concrete it will produce a colorful wear resistant concrete surface. COLOR HARDENER is specifically formulated for use in textured, stamped concrete. Its superior concrete stamping and coloring characteristics make it ideal for use on many different commercial and residential colored concrete finishes.

**Coverage Rates:** Generally 60 lbs. per 100 - 115sq. ft. is adequate for dark colors and medium use. Light colors and heavy duty use may require additional amounts.

**Description and Uses:** Formulated to be easily incorporated into the surface of freshly placed concrete, Color Hardener produces hard, durable, abrasion resistant hardscapes. It offers streak-free, uniform color in a wide color selection. Due to its dense surface, color-hardened concrete is longer wearing, easier to maintain, and more resistant to the effects of freeze/thaw cycles. With proven product uniformity, Color Hardener provides color consistency, phase-to-phase and project-to-project. Color Hardener adds vibrant or subtle color to hardscapes while providing an attractive and durable surface for pedestrian and vehicular traffic. Color Hardener is regularly used with imprinted or Stamped concrete to produce the look of handset brick, tile, or aged stone. Used with a variety of imprinting tools, its rich finishing paste allows the production of sharp, clear, wear-resistant patterns. Color hardened Concrete when used with a Color Release Agent exhibit an attractive timeworn, mottled patina. These effects are achieved by use of Color Hardener, Color Release and Clear Seal. Warehouse, industrial, commercial, and many other flat interior concrete floors, colored or uncolored, are normally hardened to protect the surface and reduce damage from wear. Color Hardener produces hard working, attractive concrete floors with dense, abrasion resistant, easy to maintain surfaces in a wide range of colors. Color Hardener is often used as a base for chemically stained concrete to produce hard, dense surfaces, rich color, and a wider color range. It is not for coloring vertical, architectural concrete, such as cast in place walls and precast or tilt up panels, or when an integral color is preferred for flat working.

**Coverage.** If insufficient material is applied, the abrasion resistance of the cured surface will be reduced, and the concrete substrate may be revealed during texturing . Color Hardener is not suitable for use over self-leveling, cementitious toppings.

**Color Hardener Application:** Surrounding areas, landscaping, and adjacent surfaces should be protected. The work area should be roped off, nearby vehicles removed, and appropriate sections closed to traffic. Application on a still day is recommended, since the powder is very fine, and wind conditions will affect its application. Material should be hand-broadcasted evenly across the surface by the dry-shake method, normally in one broadcasting operation (shake). Sufficient material (Approximate 1/8" thick) should be applied so that the sheen disappears from the surface of the concrete, the application of an excessive amount should be avoided. Once the Color Hardener has absorbed water up from the new concrete surface (2-3 minutes), float, edge, and trowel all material in until a smooth colored surface is obtained using standard concrete practices. Any missed, thin or darker areas can then be retouched using the same process. Generally 1 coat and 2-3 touch-ups will give complete coverage to the surface with the proper amount of thickness.

**Composition and Materials:** Color Hardener is a streak-free, powdered, cementitious material containing special, hard aggregates and produced by a proprietary manufacturing and inter grinding process. Formulated as a high-opacity color-hardening material for the top surface of freshly placed concrete substrates, it is lime proof, and has maximum resistance to the effects of sunlight (UV). For optimum surface hardening the aggregates are selected for hardness and purity, carefully graded through a wide particle size range to produce dense, wear resistant surfaces.

**Applicable Standards:** The coloring materials in Color Hardener conform to ASTM C 979 for color stability. Professional concreting standards and practices, including those published by the American Concrete Institute (ACI) and the Portland Cement Association (PCA), should be followed.

**Colors:** Color Hardener is available from stock in Twenty (20) standard colors. Colors shown on the Color Chart Color Hardener approximate the colors obtained when the color hardened surface is cured and sealed. Use of other curing methods will alter the color of the surface, as will certain texturing methods such as sandblasting.

**Sizes:** Color Hardener is available in easy opening 60-pound (27 kg) pails.

**Coverage:** Coverage requirements vary according to intended use and color. Color Hardener should never be applied at a coverage rate of less than 60 pounds (1 pail) per 100-125 square feet (27 kg/b m<sup>2</sup>), and for commercial applications or when a lightly sand-blasted finish is required a minimum of 90 pounds (1.5 pails) per 100-125 square feet (41 kg/b m<sup>2</sup>) is recommended. Regardless of use, light colors and whites require minimum coverage rates of 60-100 pounds (1-1.5 pails) per 100-125 square feet.

**Shelf Life:** Under normal conditions, and when kept dry, the shelf life of Color Hardener is at least nine months from the date of purchase. Inventory should be rotated.

**Cautions:** WARNING! IRRITATING TO EYES AND SKIN. DO NOT BREATHE DUST. MAY CAUSE DELAYED LUNG INJURY (SILICOSIS). CONTAINS CEMENT AND SILICA (QUARTZ). Use with adequate ventilation. Wet cement may cause alkali burns. Dust mask, safety goggles, and gloves are recommended. KEEP OUT OF THE REACH OF CHILDREN. \*Before using or handling, read the Material Safety Data Sheet and Warranty

**First Aid:** Eyes-DO NOT RUB EYES. Immediately flush thoroughly with water. Skin: Wash thoroughly with soap and water. Remove soiled clothing. Inhalation: Move to fresh air. If symptoms persist or develop, or if ingested, get medical attention. DO NOT TAKE INTERNALLY. Wash thoroughly immediately after handling