



COLOR HARDENER

TECHNICAL DATA & INSTRUCTION GUIDE

PRODUCT DESCRIPTION AND USE

Kingdom Products' Color Hardener is a premium grade custom blended formula designed for professional use for colorizing decorative concrete. It hardens and densifies, resulting in more durable and abrasion-resistant concrete surface. It is ideal for use with textured concrete, but is also excellent for standard troweled or broom—finished concrete, or for producing adjacent borders in contrasting colors. The pigments in Kingdom Products' Color Hardener are UV stable and will not fade or weather over time. It is available in 35 standard colors and custom colors can be matched to virtually any color. For stamped concrete, Kingdom Products' Antique Release Agent is recommended to produce a complementary antique highlight color.

PREPARATION

Subgrade - Must be uniformly graded, compacted and moistened, but should not have standing water. Concrete should not be placed over soft, frozen or muddy ground. Professional standards and practices should be followed such as the applications specified by the American Concrete Institute (ACI). **Concrete** - Kingdom Products recommends that a representative sample be done and approved prior to all projects. Before applying Kingdom Products Color Hardener, protect the surrounding area to ensure color does not affect areas not meant to receive color.

CONCRETE SPECIFICATION

Use a concrete mix design that meets the specifications of the job. DO NOT use any concrete chloride admixtures! All aggregates should be non-reactive and free of deleterious material. Recommended slump is 4 inches. Kingdom Products' Color Hardener may be used with the following admixtures with no adverse effect: delayed set/retarders, water-reducers, air entrainment, integral iron oxide pigment Non-Chloride Accelerator.

APPLICATION

Material settles during transport, so before using, fluff material with a gloved hand. When using more than one pail, material should be mixed together especially if it is from different lot or batch numbers. You should be using a 4"-4.5" slump mix. Place, screed, float, and edge the concrete. Wait until excess bleed water has dissipated from surface. Then, broadcast your first application of Kingdom Products Color Hardener across the surface, using 80-85% of allotted material. Within a few minutes, the moisture from the concrete itself should turn the dry powder into a moist powder. DO NOT add any additional water to the concrete! At this point, float the hardener into the surface. Do not use a trowel at this point. Broadcast a second application of hardener across surface, using remainder of allotted material, simply to ensure all lighter or inconsistent areas are completely covered. Float into concrete as before, then apply Kingdom Products Antique Release Agent if stamping. Otherwise, proceed with standard finishing of concrete, but do not hard-trowel or over-trowel as this will result in discoloration. DO NOT cover concrete, as it will also cause discoloration.

SEALING

Sealing is highly recommended for all decorative concrete. A clear curing and sealing compound such as Kingdom Products KD-100 or Kingdom Cure should be applied for curing purposes. If using in conjunction with Kingdom Products Antique Release Agent or Acid Stain, sealing procedures are different; please refer to the technical data sheet for the appropriate product.

COVERAGE

Coverage may vary depending on color choice, job condition, application techniques and other condition. For most applications, the coverage will be approximately 100 square feet per 60 lbs pail for most colors, but the lighter shades may require 80 to 90 lbs per 100 square feet.



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Technical Data & Instruction Guide Continued...

SAFETY PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN. Please read Material Safety Data Sheet and Warranty prior to use. Product contains Portland cement. Avoid contact with skin and eyes. Avoid breathing dust by wearing a respirator. Wear gloves and safety eyewear. Be sure to wash skin and clothes as soon as possible after use.

STORAGE AND HANDLING

Keep in cool, dry location in a tightly sealed container. Shelf life is approximately 12 - 36 months

LIMITATIONS

Kingdom Products' Color Hardener is for use only with freshly poured concrete surface

WARRANTY

WARRANTY: Kingdom Products Antique Release Agent is warranted to be of uniform quality within manufacturing tolerances. The manufacturer has no control over the application or use of the product, therefore, makes no warranty, express or implied, as to the effects or results of such use. The manufacturer's obligations are limited to a refund of the purchase price or replacement of material proven to be defective. The end user takes sole responsibility for determining appropriate use of the product and assumes all risks and liability.

AVAILABLE COLORS:

Item No:	Color	Item No:	Color:	Item No:	Color:	Item No:	Color:
CH-100	Coal	CH-500	Cayenne	CH-810	Espresso	CH-1075	Thistle
CH-200	Granite	CH-515	Spice	CH-825	Cypress	CH-1080	Wheat
CH-250	Seashell	CH-525	Rosewood	CH-1010	Taupe	CH-1090	Khaki
CH-300	Chocolate	CH-550	Firebrick	CH-1015	Fawn	CH-1820	Sage
CH-310	Hazelnut	CH-600	Battleship	CH-1030	Vanilla		
CH-320	Saffron	CH-615	Aluminum	CH-1040	Tumbleweed		
CH-325	Fennel	CH-625	Alabaster	CH-1045	Olive		
CH-350	Pecan	CH-650	Prussian Blue	CH-1050	Mushroom		
CH-375	Maple	CH-700	Spanish Tile	CH-1055	Copper		
CH-400	Cocoa Bean	CH-735	Golden Honey	CH-1070	Toffee		

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