



Colour-Hard™ Characteristics and Applications

Description

Colour-Hard™ is a cementitious dry shake material formulated with proprietary components, carefully balanced premium aggregates and high purity UV resistant pigments. Colour-Hard™ is manufactured under strict One Delta E standards ensuring color uniformity and consistency, performance and workability. Colour-Hard™ is available in 20 Classic Series colors and 8 Signature Series colors. Packaging is available in 60 lb. bags or pails. Refer to Legacy Colors LEG-CSC1-05-06 color card.

- Increased Abrasion Resistance
- Increased Surface Density and Durability
- UV Resistant
- Can be Antiqued or Stained
- Custom Color Matching Available

Basic Uses

Colour-Hard™ is designed for use on interior or exterior applications, both pedestrian and vehicular traffic. Colour-Hard™ can be applied to create many different finishes. From smooth trowel and broom finish to imprinted patterns and natural textures or as a base color palette for creating artistic stain designs.

Use With These Products & Systems

- Impressions™
- FauxCrete™
- ColorFlo® Liquid Color
- Fresco Stains™
- Signature Seal VOC™
- Magnum Seal™
- AquaClear VOC™

Composition

Colour-Hard™ is a special blend of powders containing specially formulated cement, streak-free, UV-resistant pigments, carefully graded hard aggregates and other proprietary components.

Applicable Standards

Colour-Hard™ has been tested in accordance with ASTM-C-979 color for stability and ASTM-C-4060 for tabor abrasion resistance.

Colors

Colour-Hard™ is available in 20 Classic Series colors and 8 Signature Series colors. Refer to Legacy Colors LEG-CSC1-05-06 color card.

Application

Concrete mix design: The project engineer should develop the actual mix design. Generally the concrete should be a 5½ sack mix with an average 4-inch slump. Only non-reactive aggregates should be used. Do not use Colour-Hard™ on concrete

containing calcium chloride or chloride-based admixtures. Air entrainment should be limited to 4% +/-1% for exterior freeze/thaw durability. No high range water reducers or super plasticizers should be used. Fly ash content should not exceed 10%. Reference ACI 302 for color hardened concrete for additional information.

Samples and mock-ups: Provide applied material samples in the color and texture specified for the project to the architect and owners for approval prior to project start. Provide on-site mock-up prior to project start for approval of color, texture and workmanship.

Preparatory work: Protect adjacent areas from contamination during application. Determine materials required, equipment and manpower needed for project. Ensure equipment is clean and operational. Stage Colour-Hard™ outside the formwork, along and adjacent to work site. Subgrade should be properly leveled and consolidated, be well drained, moist but without standing water and free of debris.

Follow all industry guidelines including ACI 302 and 303.

Installation of concrete: Place, consolidate and screed concrete. Float the concrete surface using a wood float. Allow sufficient time for bleed water to rise to surface and evaporate. Wetting of the Colour-Hard™ must come from moisture within the concrete in order for the Colour-Hard™ to develop proper strength and adhesion. Do not use the Colour-Hard™ to dry excessively wet concrete.

Application: Colour-Hard™ can pack tightly in container during shipment and storage. Loosen and fluff the Colour-Hard™ prior to broadcasting to ensure a more even application. Apply Colour-Hard™ using automated spreaders or by the dry shake method. Colour-Hard™ is normally applied in two separate broadcast applications. Broadcast 2/3 of the required amount of Colour-Hard™ evenly to the floated concrete surface. Allow Colour-Hard™ to wet out uniformly and float with a wood bull float. Broadcast final 1/3 of required amount of Colour-Hard™ to the surface in the same manner as the first dry shake application. Broadcast the second application of Colour-Hard™ at a 90-degree angle to the first application. For projects that require more than one pound per square foot of Colour-Hard™, three separate broadcast applications are normally required. Finish the color hardened surface to desired effect; hard troweled, broom finished, textured or imprinted with stamps.

The edges of the concrete slab will dry and lose moisture more rapidly. Apply Colour-Hard™ and work the edges first before the rest of the slab.

Do not add or sprinkle water onto the color-hardened surface as this can weaken and discolor the surface. In hot, dry, windy conditions, and/or highly air entrained mix designs, Stampers Helper™ may be required to aid in finishing and reduce surface crazing.

Sealing: All color-hardened surfaces must be sealed with Signature Seal VOC™, AquaClear VOC™ or Magnum Seal™. Refer to the respective technical data sheets for additional information and application procedures. Sealers will enhance the final color.

Colors and Coverage Rates

Colour-Hard is available in 20 Classic Series colors and 8 Signature Series colors. Refer to Legacy Colors LEG-CSC1-05-06 color card.

Coverage rates are dependent upon the color selected.

Darker colors: approximately 100 square feet (9.3 square meters) per unit
Medium colors: approximately 75 square feet (6.9 square meters) per unit
Light colors: approximately 60 square feet (5.6 square meters) per unit

Packaging

Colour-Hard™ is available in 60-pound (27.2 kilogram) units. Both pails and bags are available.

36 pails per pallet or 50 bags per pallet

Storage and Shelf Life

Colour-Hard™ should be stored in a cool, dry location. Open containers should be used immediately. Dispose of any partial units of material. Shelf life of properly stored materials is 1 year from date of manufacture in unopened original container.

Clean Up

Colour-Hard™ when wet can be removed from tools with clean water. Dried material may require chemical or abrasive removal cleaning techniques.

Limitations

Colour-Hard™ is not designed for application over thin toppings, underlayments or overlayers. Colour-Hard™ should not be mixed with water or polymers and used as a trowel or spray applied topping over hardened concrete. The use of Fluosilicate type chemical hardeners should not be used on Colour-Hard™ treated surfaces.



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Precautions

It is mandatory to take the following precautions to protect workers and the public.

1. KEEP OUT OF THE REACH OF CHILDREN.
2. Keep away from excessive heat and open flame.
3. Avoid inhalation of vapors. Ensure adequate ventilation.
4. Avoid contact with skin. Contact areas should be thoroughly washed with soap and water.
5. Avoid contact with eyes. Flush eyes with water if contact occurs.
6. Avoid ingestion of material. If ingestion occurs, contact a poison control center or physician.
7. Use appropriate protective clothing, including gloves, goggles and fitted approved OSHA-NIOSH respirators.

Additional precautions, safety information and first aid treatments are contained in the Material Safety Data Sheet.

Warranty

Legacy™ Decorative Concrete Systems, Inc. warrants that these products will be free from defects, and will perform as specified in the Technical Data Sheet, provided that storage, use and application of product are in accordance with manufacturer's recommendations and application instructions. The exclusive remedy of the user or buyer and the limit of the liability of this company for product proven defective shall be the purchase price paid by the user or buyer for the quantity of the Legacy™ Decorative Concrete Systems, Inc. products involved. Legacy™ Decorative Concrete Systems, Inc. shall not be liable for indirect, incidental, consequential, or special damages, whether due to breach of warranty or tort including without limitation Legacy™ Decorative Concrete Systems, Inc. .

Manufacturer

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