

## PRODUCT DATA SHEET

# SikaColor®-200 Color Hardener

Dry shake color hardener that is applied to the surface of freshly placed concrete to create abrasion-resistant interior floors and exterior hardscapes

### PRODUCT DESCRIPTION

SikaColor®-200 Color Hardener is a dry shake, color hardener that is applied to the surface of freshly placed concrete during the finishing process. It is a cementitious-based coloring material that may be used to create abrasion resistant interior floors and exterior hardscapes. The time-tested formulation of SikaColor®-200 Color Hardener creates an extremely dense surface that is resistant to foot and vehicular traffic. It is available in a wide range of streak free, uniform colors ranging from subtle pastels to deep, rich hues. SikaColor®-200 Color Hardener, used in conjunction with varying finishing techniques, jointing schemes, saw cutting and/or pattern stamping, can create a striking effect. Previously named Perma-Shake® Color Hardener and LITHOCHROME® Color Hardener.

### USES

SikaColor®-200 Color Hardener may only be used by experienced professionals.

- Uniformly colors gray concrete or provides random accents of color on integrally colored concrete
- Can be used when imprinting, texturing, or stenciling new concrete with SikaStamp® Stamping Tools, SikaStamp® Texture Rollers, and SikaStamp® Stencils
- Compatible with SikaCem®-800 Clear Liquid Release, SikaColor®-300 Antiquing Release, SikaColor®-340 SG Antiquing Release, SikaColor®-430 Elements®, and SikaColor® reactive acid stain
- Pedestrian ramps, walkways, building entrances, foyers, stairs, loading docks, parking structures, food courts, drive-thru lanes, crosswalks, driveways, patios, and pool decks

### CHARACTERISTICS / ADVANTAGES

- Hardens & densifies concrete surface
- Increases abrasion resistance
- UV resistant
- Resistant to fading
- Superior aggregate gradation allows for easy finishing
- It's water-reducing wetting agent allows it to be readily incorporated into the concrete surface, forming a rich paste that makes finishing easier
- Provides an extremely durable surface for pedestrian and vehicular traffic
- Adds a wide array of color options that are bolder, brighter, or lighter than gray concrete
- Combinations of colors can be used to create a desired mood and theme
- Lighter colors are recommended on pool decks

### APPROVALS / STANDARDS

- ASTM C979/C979M-16 - Standard Specification for Pigments for Integrally Colored Concrete

## PRODUCT INFORMATION

Chemical Base	Metal Oxide
Packaging	50 lb. (22.7 kg) fill in 4 gal. (15.1 L) square plastic pail
Shelf Life	60 months in original unopened container
Storage Conditions	Store in original, unopened containers, in dry storage
Appearance / Color	Available in 23 standard colors

## APPLICATION INFORMATION

Coverage	Coverage varies depending on slump, ambient temperature, humidity, use of admixtures or finishing aids, and finishing methods. Recommended coverage is 50 lb./100 sq. ft. (22.7 kg/9.3 m <sup>2</sup> ). Recommended coverage for lighter colors is 50 lb./80 sq. ft. (22.7 kg/7.4 m <sup>2</sup> ).
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## BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

## LIMITATIONS

- SikaColor®-200 Color Hardener must be applied at the recommended broadcast rate (see Coverage section). Applying insufficient material will reduce the abrasion resistance and may alter the color of the cured surface.
- SikaColor®-200 Color Hardener should not be mixed into ready mixed concrete nor applied onto cementitious overlays.
- SikaColor®-200 Color Hardener is intended for application during new concrete flatwork installations. It may, however, be mixed with water and then applied onto fresh vertical concrete such as step risers or curbs (see Vertical Surfaces section). Utilize concrete mix designs, tools, and techniques that ensure the thorough hydration of the material for proper finishing and curing.

## ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

## APPLICATION INSTRUCTIONS

Cast a job site mock-up before the installation for approval of color and finish. Utilize all materials, tools,

and techniques from the actual job in the mock-up. Consistent batching, pouring, finishing, curing, sealing, and preparation techniques will ensure the uniformity of architectural concrete. Verify adequate wet and dry slip resistance. Maintenance requirements should also be discussed.

## NOTES ON INSTALLATION

Once placing of the concrete has begun; do not randomly add water to the mixer drum or to the surface of the concrete. This potentially will create color variations and a strength loss in the color hardened surface. Water may be added to the drum before initial discharge to attain, but not to exceed, the specified slump. Once discharged, the specified slump must be maintained throughout the installation, particularly for adjacent pours of concrete. Never retemper concrete that has started to set. Water reducing and plasticizing admixtures may be used with SikaColor®-200 Color Hardener. However, use of such admixtures may affect the finishing and setting characteristics of the color hardened surface.

## APPLICATION

Cover adjacent surfaces to protect from colored concrete splatter. After placing, and initial bull floating or hand floating, no further finishing or application of the color hardener should be performed until the bleed water has dissipated from the surface. Do not use the color hardener product to absorb excess moisture from the concrete surface. SikaColor®-200 Color Hardener is a premium color hardener that typically requires two applications. The first application should be approximately 2/3 of the required amount of color hardener. Once broadcast, allow the color hardener to absorb moisture, slightly darkening, before working the surface with a magnesium or wood float. After bull floating or hand floating, apply the remaining 1/3 balance of the color hardener, concentrating on those

areas where the underlying gray concrete color is still visible. Float as before, after it has absorbed moisture. When troweling with power trowels, the use of plastic blades is recommended.

If the slab is too wide to broadcast by hand, bridging the slab or the use of a mechanical spreader may be more efficient. If a mechanical spreader is used, 85% of the color hardener should be broadcast in the first application with 15% being retained for broadcast on any light areas during the finishing operation. Water should never be applied to the color hardener, as it will weaken and discolor the surface. SikaColor®-200 Color Hardener must be correctly applied and finished before the underlying concrete starts to dry and harden. During hot or windy conditions, the use of an evaporation retarder or a finishing aid should be considered.

Texture all surfaces adequately and uniformly for slip resistance. Closing with a steel trowel can diminish the effectiveness of air entrainment at the surface and should be avoided where freeze-thaw is a concern. For exterior installations, apply a broom or swirl finish using a float. When broom finishing concrete, shake off any residual rinse water before brushing the surface. Apply adequate pressure while brooming, but avoid exposing the underlying concrete. Finishing techniques should be consistent and timely to avoid color and texture variations. Interior floors should not be burnished by aggressive hard troweling of the surface. Darkening of the surface may occur. All newly color hardened surfaces should be protected from damage from other trades, liquid spills and foot traffic until the surface is fully cured and sealed. For interior surfaces, consider using Sika® Proguard™ Duracover™ for surface protection.

### Stenciling

If SikaStamp® Stencils will be used to pattern the color hardened surface, place the stencils before the initial broadcast of SikaColor®-200 Color Hardener. Stencils should be placed after the bleed water has dissipated and set flat on the concrete surface. Utilize a stencil roller to lay the stencils on the surface of the concrete. Do not push the stencils below the concrete paste. Once the stencils are placed and trimmed, color hardener is applied as previously described. After finishing is complete, the stenciled and color hardened surface can be lightly broomed, floated or textured with SikaStamp® Texture Rollers. Utilize SikaCem®-800 Clear Liquid Release or SikaColor®-300 Antiquing Release when

texture rolling the color hardened surface. SikaStamp® Stencils should be removed the same day after installation. Do not leave the stencils on the concrete surface overnight, as this will make their removal time consuming and cause damage to the stencil patterned surface.

### Stamping

If the color hardened, surface will be imprinted with SikaStamp® Stamping Tools, SikaCem®-800 Clear Liquid Release or SikaColor®-300 Antiquing Release must be used to act as a bond breaker between the stamp mats and SikaColor®-200 Color Hardener. Imprinting should commence as soon as the surface is firm enough to bear the weight of the installer without excessively deflecting the mat tool, thereby causing depressions in the concrete surface. Stamping must be completed before the surface dries and hardens appreciably, rejecting or minimizing the accurate transfer of the pattern and texture.

### Control Joints

Random cracking of a concrete slab is minimized by the timely and correct placement of control joints. Control joints may be introduced during concrete placement with a groover, or after the concrete has reached initial set by power sawing. Each method should be evaluated prior to installation and should be incorporated into the pre-job mock-up. Refer to following American Concrete Institute publications for additional information: Guide to Concrete Floor and Slab Construction (ACI 302.1R-15), Joints in Concrete Construction (ACI 224.3-95).

### Vertical Surfaces

On vertical surfaces such as risers or curbs, SikaColor®-200 Color Hardener may be applied onto the freshly placed concrete at the rate of 70-90 lb./100 sq. ft. (31.8-40.8 kg/9.3 m<sup>2</sup>). Do not exceed a thickness of ¼ in. (6.4 mm). SikaColor®-200 Color Hardener must be mixed with water to a consistency of mortar and applied onto surface prior to the concrete curing completely, typically the same day of the pour and as soon as the verticals surfaces can be stripped of forming without slumping. Once the material is applied, employ the same finishing techniques that were utilized on the adjacent horizontal surfaces.

### Patching or Repairing Cured Concrete

SikaColor®-200 Color Hardener may also be used to repair cured concrete surfaces. On cured vertical or horizontal surfaces, it is important to clean and profile

the surface to be repaired to a Concrete Surface Profile of CSP 2-3. Be sure all curing and sealing compounds have been removed and the area is thoroughly dry. Apply a bonding agent such as SikaCem®-170 Primer to the area of repair prior to repair application. Follow the bonding agent instructions before mixing the SikaColor®-200 Color Hardener slurry. Mix approximately 2 lb. (0.9 kg) of SikaColor®-200 Color Hardener with 1/2 cup of clean water to a consistency of mortar. Mix water can be adjusted to accommodate the installation. Do not exceed a thickness of ¼ in. (6.4 mm). For areas exceeding ¼ in. (6.4 mm), first utilize a compatible cementitious patching material to repair the areas within ¼ in. (6.4 mm) of the surface. Then proceed to priming and patching. Once the material has been applied, finish and texture to match surrounding area. Surfaces to be repaired should not be below a temperature of 50°F (10°C) and not exceed a temperature of 80°F (26.7°C). Avoid using SikaColor®-200 Color Hardener as a patch in direct sunlight or in strong wind. It may be necessary to cover repair areas with a curing membrane to avoid drying shrinkage cracks under certain conditions.

## CURING AND SEALING

Use SikaCem®-100 Clear Guard®, SikaCem®-100 PRO 350®, or SikaCem® water-based sealers for exterior applications. Use SikaCem® water-based sealers for interior applications. Consult the most current SikaCem® sealer local Product Data Sheets for complete Application Instructions.

Do not apply sealers to concrete substrate with moisture levels > 6% mass (pbw – part by weight) as measured with Tramex® CME/CMExpert type concrete moisture meter.

## MAINTENANCE

Interior floors may be maintained with a slip resistant wax.

## OTHER RESTRICTIONS

See Legal Disclaimer.

## LEGAL DISCLAIMER

- KEEP CONTAINER TIGHTLY CLOSED

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### Product Data Sheet

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- KEEP OUT OF REACH OF CHILDREN
- NOT FOR INTERNAL CONSUMPTION
- FOR INDUSTRIAL USE ONLY
- FOR PROFESSIONAL USE ONLY

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates (“SIKA”), the user must always read and follow the warnings and instructions on the product’s most current product label, Product Data Sheet and Safety Data Sheet which are available at [usa.sika.com](http://usa.sika.com) or by calling SIKA’s Technical Service Department at 1-800-933-7452. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

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