



PRODUCT DATA SHEET

SikaColor®-200 Color Hardener

Dry shake applied colour hardener for decorative concrete

PRODUCT DESCRIPTION

SikaColor®-200 Color Hardener* is a dry shake, colour hardener that is applied to the surface of freshly placed concrete during the finishing process. It is a cementitious-based colouring material that may be used to create abrasion resistant interior floors and exterior hardscapes. SikaColor®-200 Color Hardener creates an extremely dense surface resistant to foot and vehicular traffic. SikaColor®-200 Color Hardener is available in a wide range of colours ranging from subtle pastels to deep, rich hues.

**Previously named Perma-Shake® Color Hardener and LITHOCHROME® Color Hardener.*

WHERE TO USE

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

SikaColor®-200 Color Hardener can be used when imprinting, texturing, or stenciling new concrete with SikaStamp® Stamping Tools, SikaStamp® Texture Rollers, and SikaStamp® Stencils on structures such as:

- Pedestrian ramps, crosswalks and walkways
- Building entrances, food courts, foyers, stairs
- Parking structures, drive-thru lanes,
- Driveways
- Patios and pool decks

PRODUCT INFORMATION

Composition / Manufacturing

Metal Oxide

Packaging

22.7 kg (50 lb) fill in 15.1 L (4 US gal) square plastic pail

CHARACTERISTICS / ADVANTAGES

- Hardens & densifies concrete surface
- Colours uniformly grey concrete or provides random accents of colour on integrally coloured concrete
- Increases abrasion resistance
- UV resistant
- Resistant to fading
- Superior aggregate gradation allows for easy finishing
- Formulated with a water-reducing wetting agent allowing it to be readily incorporated into the concrete surface, forming a rich paste for easier finishing process
- Provides an extremely durable surface for pedestrian and vehicular traffic
- Adds a wide array of colour options that are bolder, brighter, or lighter than gray concrete
- Compatible with SikaCem®-800 Clear Liquid Release, SikaColor®-300 Antiquing Release, SikaColor®-340 SG Antiquing Release, SikaColor®-430 Elements®, and SikaColor® reactive acid stain

APPROVALS / CERTIFICATES

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

Appearance / Colour	Available in 23 standard colors
Shelf Life	5 years in original unopened container
Storage Conditions	Store in original, unopened containers, in dry conditions

APPLICATION INFORMATION

Yield	Coverage rate varies depending on slump, ambient temperature, humidity, use of admixtures or finishing aids, and finishing methods. ▪ 22.7 kg/9.3 m² (50 lb/100 ft²) ▪ 22.7 kg/7.4 m² (50 lb/80 ft²) - Recommended for lighter colours
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BASIS OF PRODUCT DATA

Product properties are typically averages, obtained under laboratory conditions. Reasonable variations can be expected on-site due to local factors, including environment, preparation, application, curing and test methods.

LIMITATIONS

- SikaColor®-200 Color Hardener must be applied at the recommended broadcast rate (see Yield section). Applying insufficient material will reduce the abrasion resistance and may alter the colour 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.

ENVIRONMENT, HEALTH & SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

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 colour variations and a strength loss in the colour 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 colour hardener product to absorb excess moisture from the concrete surface. SikaColor®-200 Color Hardener is a premium colour hardener that typically requires two (2) applications. The first application should be approximately 2/3 of the required amount of the product. Once broadcast, allow the colour 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 third of the product, concentrating on those areas where the underlying grey concrete colour is still visible. Float as before, after it has absorbed moisture. When troweling with power trowels, the use of plastic blades is recommended.

Note: If the slab is too wide to broadcast manually, bridging the slab or the use of a mechanical spreader may be more efficient. If a mechanical spreader is used, 85 % of the colour 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 colour hardener, as it will weaken and discolour 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 surfaces recently treated with SikaColor®-200 Color Hardener must be protected from damage caused by 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 colour 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 colour 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 colour 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 31.8–40.8 kg/9.3 m² (70–90 lb/100 ft²). Do not exceed a thickness of 6.4 mm (1/4 in). 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 CSP 2-3 surface profile. 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 0.9 kg (2 lb) 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 6.4 mm (1/4 in). For areas exceeding 6.4 mm (1/4 in), first utilize a compatible cementitious patching material to repair the areas within 6.4 mm (1/4 in) 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 10 °C (50 °F) and not exceed a temperature of 26.7 °C (80 °F). 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 Sika® Florseal WB-18 or 25, SikaCem® water-based sealers for exterior applications, or SikaCem® water-

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based sealers for interior applications. Consult the most current Product Data Sheets for complete Application Instructions.

Note: 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.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

LEGAL NOTES

The information, and in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any recommendations, or from any other advice offered. The information contained herein does not relieve the user of the products from testing them for the intended application and purpose. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request or may be downloaded from our website at: www.sika.ca

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