BUILDING TRUST

PRODUCT DATA SHEET

SikaColor-120 G

Free-flowing pigment granules designed to permanently color concrete and other cementitious materials

PRODUCT DESCRIPTION

SikaColor®-120 G is free-flowing concentrated pigment granules designed to permanently color concrete and other cementitious materials. They can be poured directly into concrete mixes, conveyed by gravity feed or pneumatic equipment, or dispensed into repulpable bags that can later be added directly to the concrete mix as a single unit. Previously named Uni-Mix® Granular Integral Concrete Colorant and CHROMIX® G Admixtures for Color-Conditioned® Concrete.

USES

- Concrete flat work installations
- Vertical concrete installations
- Interior concrete floors and exterior concrete hardscapes
- Precast, tilt-up, shotcrete, overlays, and cast-in-place applications
- Municipal pavements
- Exposed aggregate
- Stamped concrete

CHARACTERISTICS / ADVANTAGES

- Weather-resistant, UV-stable, lightfast, and alkali resistant
- Offers color on demand while reducing inventory
- By stocking only 4 base colors, a wide range of colors are possible with the press of a button
- Contains no materials that initiate, accelerate, or promote the corrosion of steel, coated metal, plastic, or rubber concrete reinforcements
- Will not migrate from standing water, allowing it to safely color concrete fountains, pools, water features, or concrete that will be polished and encounter damp environments

APPROVALS / STANDARDS

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

PRODUCT INFORMATION

Chemical Base	Synthetic Iron Oxide Granule Pigments

Packaging	Repulpable paper bag (weight varies) Super sack (weight varies) Super sacks designed for use with a SikaColor® Granular Dispensing System are available in four standard base colors:

Base Color:	Packaging:
10 G Black	2200 lb. (997.9 kg) fill in super sack
20 G Light Red	2200 lb. (997.9 kg) fill in super sack
25 G Medium Red	2200 lb. (997.9 kg) fill in super sack
30 G Yellow	1540 lb. (698.5 kg) fill in super sack

Hundreds of tested color formulas are available for immediate dispensing into repulpable paper bags that can later be added directly to the concrete mix as a single unit. These are typically packaged so one unit colors one yard of concrete.

Appearance / Color	Over 700 tested color formulas are available for immediate packaging with the SikaColor® Granular Dispensing System. These include colors depicted on SikaColor® integral color charts, as well as hundreds of industry-standard colors.
Shelf Life	24 months in original unopened container
Storage Conditions	Store in original, unopened containers, in dry storage, below 175°F (79.4°C).

TECHNICAL INFORMATION

Concreting Guidance	SikaColor®-120 G is designed to have minimal effect on concrete's plastic and hardened properties and to minimally interact with other concrete admixtures. Additional water, about 10 % of the SikaColor®-120 G used, may be needed to compensate for water absorbed by the SikaColor®-120 G. This amount of water will be reduced if water-reducing admixtures are part of the mix design. As all chemical admixture interactions cannot be predicted, always test final mix designs with actual materials to be used, and perform a job site test section as described later in this Product Data Sheet.

APPLICATION INFORMATION

Recommended Dosage	Color selection will determine the ratio of base colors needed, and color saturation, and intensity will determine the amount of SikaColor®-120 G required. Typical dosages range between 0.2 and 10 lb. of SikaColor®-120 G per 94 lb. sack of cement. If supplementary cementitious materials such as fly ash or blast-furnace slag are used in the mix, their weight must be added to the cement weight when determining the correct dosage.

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

- Do not use with chloride-based accelerators.

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

Factors Influencing Final Color & Appearance

Concrete composition variations that can impact color include cement type and color, aggregate selection, and the use of pozzolans such as slag or fly ash. Differences in sealer or curing compound type, such as water or solvent-based, or if no sealer is used, can also influence final appearance. Finishing techniques will affect the final appearance of the concrete.

Different tools, such as wood floats, magnesium trowels, hard steel trowels, brooms, and edging tools, will each influence color, surface texture, sealer penetration, and final cured concrete appearance differently. Do not change tool types once work has begun.

Changes in water content and water-to-cement ratio, both in the mix and on the concrete surface during finishing, can influence the final surface color. Mix designs that develop excessive bleed water can lead to non-uniform cement/pigment ratios and cause uneven or weak coloring. Once mix designs are established, do not add water to alter concrete plastic properties. Do not add water to partially cured loads to loosen them. Do not use “watering” sprinklers as colored concrete cures, or use wet brooms and tools while finishing. Any of these will likely result in inconsistent concrete color.

Placement and Finishing Tips

As freshly placed concrete cures, its color will vary with differences in surface moisture. Concrete curing in shaded areas or in the center of large slabs will surface-dry more slowly than concrete exposed to sunlight or near form edges. This can cause color variations that will often fade with time. Avoid high-salt aggregates, which can cause efflorescence and irregular color. These visual differences can be long-lasting and raise questions about the quality of the concrete placement. Always evaluate composition and finishing techniques.

Reinforcing Fiber Interactions

If high air content is experienced with competitor reinforcing fibers, pre-wet the fibers by tumbling in the mixer for three minutes with water and colorant before batching concrete into the mixer.

Job Site Test Sections

Before large-scale production, the concrete or cementitious mix design for each color to be produced must be finalized. Conduct small-scale testing to demonstrate that concrete from the mix design meets all slump, flow, air content, compressive strength, and any other required concrete specifications. Before general job site use, representative job site test section(s) or "mock-ups" must be produced and approved for each concrete color mix design, surface finish/texture, and each curing compound/sealer combination.

Use job site test sections to verify the entire system's suitability, including frame/mold and foundation preparation methods, surface concrete specification compliance, finishing techniques, safety procedures, and the achieved performance of the fresh and fully cured concrete. When applicable, test completed systems for wet and dry slip resistance. Evaluate polishing or coating application techniques, final color, and visual appearance. Do not proceed with products, methods, or finishing systems that do not meet required specifications or do not have site owner approval.

Selected job site test sections shall be located in proximity to the larger job area and shall be made from the same concrete mix design that will be used on the larger project. Job site test sections shall be sized to represent the finished project and produced by the same workers who will perform the project installation.

MIXING

SikaColor®-120 G can be introduced at any point in the concrete mixing process, as long as sufficient mixing time is provided for the color to reach a uniform, unchanging appearance. Typically, this will take at least 10 minutes and 130 drum revolutions at optimal mixing speed. Automated delivery systems can be set to introduce granules early in the batching process to minimize dusting. Care must be taken to prevent disintegrating bags or granules from becoming hung up on mixing vanes or from collecting in areas where the mix has limited motion.

OTHER RESTRICTIONS

See Legal Disclaimer.

LEGAL DISCLAIMER

- **KEEP CONTAINER TIGHTLY CLOSED**
- **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 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.

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and

to meet the technical properties on the current Product Data Sheet if used as directed within the product's shelf life. User determines suitability of product for intended use and assumes all risks. User's and/or buyer's sole remedy shall be limited to the purchase price or replacement of this product exclusive of any labor costs. **NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.**

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