



PRODUCT DATA SHEET

SikaColor®-430 Elements®

A low odor, low VOC, water-based concrete stain capable of providing translucent color variations similar to reactive acid stain

PRODUCT DESCRIPTION

SikaColor®-430 Elements® is a low odor, water-based, environmentally and user-friendly concrete stain with low VOC. SikaColor®-430 Elements® represents the latest in nanopigment technology. It is formulated to readily permeate a properly prepared concrete surface and create translucent color variations similar to reactive acid stain. It is an excellent substitute for reactive chemical stains on substrates that are minimally reactive with acid stains or when a color is desired that cannot be produced by an acid stain.

USES

- Applied as the primary coloring material over uncolored concrete and other compatible substrates
- Can be applied over integrally colored concrete, color hardened concrete, stamped or stenciled concrete, cementitious overlays, and reactive chemical stains once neutralized
- Interior concrete floors and exterior concrete hardscapes

CHARACTERISTICS / ADVANTAGES

- Must be applied with HVLP or pneumatic airless sprayer
- Low VOC, low odor
- Creates translucent mottled color
- Expanded color range compared to chemical stain
- Soap and water clean-up
- Does not contain acid
- Multiple colors may be used for a more creative effect
- Most colors are resistant to fading from sunlight (see LIMITATIONS section)
- Can be blended with other colors to create a unique color palette

PRODUCT INFORMATION

Chemical Base	Water-Based
Packaging	32 oz. (946.4 ml) fill in 32 oz. (946.4 ml) plastic bottle
Shelf Life	24 months
Storage Conditions	Store in original, unopened containers, in dry storage, between 60-80°F (16-27°C). Do not freeze.
Appearance / Color	Available in 18 standard colors

APPLICATION INFORMATION

Coverage

200-400 sq./ft. (concentrate mixed with 96 oz. potable water)

Coverage will vary widely depending on the porosity and texture of the surface, application method, desired color intensity, and number of applications. Two applications may be required on very porous concrete. Greater color intensity may be achieved with multiple applications. Each application must penetrate and be absorbed by the concrete surface.

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®-430 Elements® must be applied to clean structurally sound concrete, cured (28 days), free from laitance, dust, film forming curing compounds, and other contamination that will prevent penetration. **Non-porous surfaces shall be cleaned with Sika® CHO™ Concrete Cleaner and neutralized before applying SikaColor®-430 Elements®.** SikaCem® cementitious overlays should cure for a minimum of 72 hours at 70°F (21°C) before applying SikaColor®-430 Elements®. Do not apply when substrate, product or ambient temperatures are below 50°F (10°C) or above 85°F (29°C) or relative humidity is above 85% or when such temperatures are expected within 72 hours following application. Do not apply to wet, damp, or frozen surfaces. Do not use material if it has been frozen. SikaColor®-430 Elements® should not be used in areas subject to vehicular traffic. Excessive applications of SikaColor®-430 Elements® that are allowed to form a film and harden on the concrete surface may delaminate or peel.

Do not use ELE124 Red or ELE127 Purple for exterior or interior applications exposed to sunlight.

All surfaces colored with SikaColor®-430 Elements® must be sealed with SikaCem®-100 Clear Guard®, SikaCem®-100 PRO 350®, or a SikaCem® water-based sealer. Do not use SikaCem®-102 First Seal®. The colorations produced are translucent. Do not use SikaColor®-430 Elements® to hide surface blemishes or construction problems. Any variations in the substrate, such as construction errors, patching, and differences in color or texture will likely be noticeable after the application of SikaColor®-430 Elements®. SikaColor®-430 Elements® will not color exposed sand or aggregate. Do not use on vinyl, asphalt rubber, glazed tile or similar materials. **Note: SikaColor®-430 Elements® is not recommended**

for high traffic areas, areas subject to abrasion, or areas subject to immersion.

All furniture used on SikaColor®-430 Elements® stained surfaces must be affixed with some form of floor protection pads. Do not subject SikaColor®-430 Elements® stained surfaces to construction equipment and/or machinery.

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 prior to 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.

SUBSTRATE PREPARATION

The substrate must be free from liquid release agent, powder release agent, curing compounds, sealers, oil, dirt, and other contamination that would impede the penetration of SikaColor®-430 Elements®. Hard-troweled concrete, self-leveling overlays, or similarly dense surfaces require preparation by rotary sanding with a 60-80 grit mesh-sanding screen or grit rotary brush. Avoid sanding too deeply and exposing the aggregate, which will change the surface color and texture. Demonstrate the effects of sanding upon color and texture with a mock-up panel prior to starting the installation. Test the surface with water. Random drops of water should quickly penetrate and darken the substrate. If not, additional sanding is necessary.

Once the concrete is clean, sound and contaminant free, non-porous substrates shall be washed with Sika® CHO™ Concrete Cleaner. Available in 1 lb. (0.5 kg) and 5 lb. (2.3 kg) containers jars. Mix 1 lb. (0.5 kg) of Sika® CHO™ Concrete Cleaner with 1 gal. (3.8 L) of clean water. 1 gal. (3.8 L) of the solution will clean approximately 100-150 sq. ft. in a single application. Spray or brush the solution onto the surface and then scrub with a stiff bristled brush or a white pad mounted on a rotary floor machine. Depending on the porosity/density of the concrete, multiple applications of Sika® CHO™ Concrete Cleaner or mechanical abrasion may be necessary. Do not allow the cleaning solution to dry on the surface. After cleaning with Sika® CHO™ Concrete Cleaner, neutralize the surface by brushing and washing with a solution of either 1 cup (236.6 ml) ammonia and 5 gal. (18.9 L) of water or 1 lb. (0.5 kg) of baking soda and 5 gal. (18.9 L) of water. Do not allow the neutralizing solution to dry on the surface. Flush and wet vacuum the residue. Thoroughly remove residues from the neutralizing and cleaning solutions from the surface. Neutralize and rinse the surface with water until a pH of 7 is achieved. Wet mopping alone will not adequately remove the neutralizing solution. The substrate must be completely dry before applying stains, coatings, and overlays.

Cleaning with muriatic acid is not recommended. The substrate must be dry before applying SikaColor®-430 Elements®.

MIXING

Shake the concentrated 32 oz. (946.4 ml) plastic bottle of SikaColor®-430 Elements® and then pour into a clean plastic pail. Then add 96 oz. (2.8 L) of potable water into the pail by filling the emptied 32 oz. (946.4 ml) plastic bottle three times. Ensure that all color concentrate is rinsed from the bottle. Consistently measure the water to ensure color accuracy and coverage. Do not use concentrate without diluting with potable water. Do not add any other liquid or chemical to the product. Mix SikaColor®-430 Elements® by hand or with a drill mounted paddle. Once mixed, the working time is indefinite. Periodically agitate the mixed material during the application.

APPLICATION METHOD / TOOLS

Apply SikaColor®-430 Elements® with a clean high volume, low-pressure (HVLP) sprayer. Spray evenly over

the prepared substrate in a circular or random motion. For larger applications, a pneumatic airless sprayer with a .011 tip may be used. A pump up sprayer is not an acceptable applicator.

APPLICATION

The concrete surface and joints must be thoroughly dry before application of SikaColor®-430 Elements®. Cover and protect adjacent surfaces with plastic during mixing and application. Overspray and spills are difficult to remove.

Periodically agitate the product in the mixing pail and sprayer reservoir, as settlement will occur. A shallow saw cut is recommended for effectively separating different colors. More than one application of SikaColor®-430 Elements® may be required on very porous concrete to achieve the desired coloration.

Do not allow material to puddle and dry on the surface or in joints. Depending on surface density and porosity, the substrate will eventually reject excess material. Excess material should be redistributed or wiped up with a clean cloth before it dries, otherwise it will require a more thorough clean up before sealing. If the material appears wet for longer than 1 minute, do not attempt to apply more product. If multiple applications are necessary, the surface may be lightly walked on after the previous application is dry to the touch or tack free. Do not walk on the dry stained surface for approximately 8 hours after the final application. Protect the stained surface from water and other liquids for 36 hours after application.

CLEANING OF TOOLS

Application tools and equipment can be cleaned with soap and water.

SEALING

After SikaColor®-430 Elements® has dried for 24 hours, apply SikaCem®-100 Clear Guard®, SikaCem®-100 PRO 350®, or a SikaCem® water-based sealer. Do not use SikaCem®-102 First Seal®.

MAINTENANCE

Periodically inspect sealed surfaces for wear or damage. All concrete sealing compounds will eventually exhibit the effects of weathering and traffic. For maximum

coating life and performance, wipe up all chemical solvent or petroleum spills as soon as possible. Remove abrasive debris by sweeping or vacuuming. Do not drag, drop or place sharp edges on sealed surfaces.

Periodic washings with mild detergents will help maintain surface luster. Do not use solvent or acid-based cleaning materials for general cleaning. Hot car tires or turning tires while car is standing may damage the sealer. Surfaces that will be subjected to car traffic, de-icing salts or chemical exposure, must receive minimally, two applications of SikaCem®-100 Clear Guard® or SikaCem®-100 PRO 350®. Porous surfaces may require multiple application of a sealer to ensure protection of the underlying substrate.

Prior to re-coating, the surface and joints must be clean, dry, free from cleaning product residue, other contamination, or loose materials, which will affect the adhesion of SikaCem®-100 Clear Guard®, SikaCem®-100 PRO 350®, or SikaCem® water-based sealers. When recoating a non-hard troweled surface with SikaCem®-100 Clear Guard® or SikaCem®-100 PRO 350®, SikaCem®-100 Slip-Resistant Additive may be added to the sealer.

Interior Floors

Regularly clean by dry and wet mopping. Periodically machine scrub, rinse, and wet vacuum the surface. Apply a maintenance wax or slip resistant wax as directed by the wax manufacturer. This type of periodic maintenance will greatly enhance the appearance of the floor and minimize the need to strip and/or reapply the sealer.

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

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Product Data Sheet

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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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