

ULTRALIT COLOREX

COLORANT FOR EXTERIOR AND INTERIOR CURED CONCRETE

DESCRIPTION

Ultralit ColorEX Colorant is a fast, easy way to apply color to many type of interior and exterior concrete. It provides durable color by bonding proven color pigments to the concrete with integral silicate hardener, eliminating the hazards and long wait times of acid stains. It is ideal for porous concrete finishes such as broom-finished or stamped concrete, including pavements, porches, patios, driveways, sidewalks and pool decks. Ultralit ColorEX Colorant can also be used for interior concrete such as garage floors, and can be applied to other cementitious surfaces.

BENEFITS

- Can be applied to exterior and interior concrete
- UV stable pigments
- Contains concrete silicate hardener
- Fast application, no 3-hour dwell time
- Penetrating and durable
- Water-based
- Easy to apply
- Can be applied to most cementitious surfaces
- Concentrated for easy shipping and storage
- Easy to clean and maintain
- Low VOC (< 40 g/L)

IDEAL FOR APPLICATIONS IN

- Parking garages
- Warehouses
- Patios

- Driveways
- Sidewalks
- Pool decks
- and others...

COMPOSITION

Ultralit ColorEX Colorant is a liquid suspension of a proprietary pigment, polymer and polysilicate lithium salt. It is an odorless liquid concentrate. Appearance varies with different available colors. Ultralit ColorEX Colorant penetrates concrete surfaces and reacts with lime (calcium hydroxide) in the concrete to form insoluble calcium-silicate-hydrates (CSH) crystals that bond colorant to concrete. By consuming lime, it also reduces or eliminates efflorescence that can disfigure concrete surfaces. The colorant introduces color into the concrete surface and can be applied multiple times to build up color.

APPLICATION

Limitations:

- New concrete must cure for at least 28 days before application.
- While in most cases the Ultralit ColorEX system will extend resistance to color fading or dissipating, due to variables in application, maintenance and the concrete itself, appearance may change over time.

Preparation:

- **WARNING:** People, property, vehicles, animals, plants and all surfaces not intended to be dyed should be protected from the product, splash, overspray and wind drift, using polyethylene sheeting or other proven protective material. If design requires discreet areas of color, mask adjoining areas, lining color edges with painter's tape or similar adhesive masking material. Surfaces, animals or clothing contacted by dye may be permanently colored.

- NEW SLABS MUST HAVE CURED FOR AT LEAST 28 DAYS BEFORE APPLICATION. Do not apply if concrete is frozen, dirty or has standing water. Test surface absorbency with a light water spray – concrete surface should wet uniformly. If concrete does not wet uniformly, remove any surface contaminants with appropriate cleaning treatment or mechanical process. Surfaces should be clean, structurally sound and free of all foreign materials including sealants, adhesives, bond breakers, curing compounds, curing agents, surface grease and oil and construction debris. Ground or sanded surfaces should be vacuumed thoroughly.
- Spray a light first application of product. After one hour, or when dry, spray a second application, if needed. Move sprayer in direction at 90 degrees from first application. If a darker color is desired, wait another hour before spraying third application. Do not broom Ultralit ColorEX Colorant.
- Clean up tools and overspray with water before product dries.
- Allow product to dry.
- Ultralit ColorEX Colorant application must be protected with an appropriate sealer or stain protector. For exterior concrete, apply Ultralit SealEX. For interior concrete, apply Ultralit Gloss. Use according to manufacturer's directions.

Mixing:

- Ultralit ColorEX Colorant is shipped as a concentrate. Dilute with Ultralit Hard Standard in 4:1 ratio.
- 1 Gallon: Pour contents of Ultralit ColorEX concentrate container 0.75 L into 5 L plastic bucket. Add 3 L of Ultralit Hard Standard- to make 3.8 L working solution.
- 5 Gallon: Pour contents of Ultralit ColorEX concentrate container 3.8 L into 20 L plastic bucket. Add 15.1 L of Ultralit Hard Standard - to make 18.9 L working solution.
- On troweled concrete, product will cover approximately 15-20 m²/L and 7-10 m²/L on porous concrete. Highly absorbent concrete, such as exterior broom finished concrete, may lower the coverage rate.

Testing:

- Prior to starting project, apply Ultralit ColorEX System to sample area of each type of concrete to be treated, using applications procedures proposed for project. Confirm that concrete is receptive to dye and that color is acceptable. Ambient temperature during application should be 4-32°C.

Application procedure for porous concrete (broom finished, stamped, etc.):

- **Surface preparation:** concrete must be cleaned with power washer or other method. Remove all debris, stains, sealers and coatings. Concrete must be thoroughly dry before Ultralit ColorEX application.
- **Equipment:** apply Ultralit ColorEX Colorant using Patriot™ 500 or Patriot 350 or similar low pressure sprayer with Patriot Gray #8 or similar conical mist tip with 31.8 L/hr at 275.8 kPa flow.

Application procedure for non-porous concrete (troweled finish):

- **Surface Preparation:** prior to application of Ultralit ColorEX Colorant, slab must be diamond ground with progressively finer abrasives up to a 150-grit metal bond profile or equivalent.
- **Equipment:** apply Ultralit ColorEX Colorant using a Patriot™ 500 or Patriot 350 or similar low pressure sprayer fitted with Patriot Green #4 or similar conical mist tip with 15.9 L /hr at 275.8 kPa flow.
- Spray a light first application of product. After one hour, or when dry, spray a second application, if needed. Move sprayer in direction at 90 degrees from first application. If a darker color is desired, wait another hour before spraying third application. Do not broom Ultralit ColorEX.
- Clean up tools or any overspray with water before product dries.
- Allow product to dry.
- Ultralit ColorEX Colorant application must be protected with an appropriate sealer or stain protector. For exterior concrete, apply Ultralit SealEX. For interior concrete, apply Ultralit Gloss. Use according to manufacturer's directions.

Application procedure for abbreviated polish finish:

- Pigment-based Ultralit ColorEX Colorant can achieve better hiding of concrete's natural color than transparent dyes, and can be used to achieve a colored floor with an appearance similar to a full diamond polish.

- **Surface Preparation:** prior to application of of Ultralit ColorEX Colorant, slab must be diamond ground with progressively finer abrasives up to a 150-grit metal bond profile or equivalent.
- **Sprayer:** low pressure sprayer fitted with green #4 or similar conical mist tip with 15.9 L/hr at 275.8 kPa flow.
- Spray a light first application of product. After one hour, or when dry, polish with 1500-grit or higher diamond-impregnated pad under a high speed burnisher or grinder/polishing machine.
- Spray a second application of Ultralit ColorEX Colorant. Move sprayer in direction at 90 degrees from first application. Follow with polishing with a 1500 grit or higher diamond pad just as after the first application. If a darker color is desired, wait another hour before spraying third application and repeat polishing step as before. Do not broom Ultralit ColorEX.
- Clean up tools or any overspray with water before product dries.
- Ultralit ColorEX Colorant application must be protected with an appropriate sealer or stain protector. For exterior concrete, apply Ultralit SealEX. For interior concrete, apply Ultralit Gloss. Use according to manufacturer's directions.

MAINTENANCE

- Remove dust and debris with broom, vacuum, water hose, mop or autoscrubber.
- Spills of staining agents or acidic etching agents including acidic food substances (e.g. vinegar, pickle juice) should be cleaned up immediately to minimize damage to surface.
- DO NOT use with acidic cleaners.
- Renew sealer or stain protector every two years, or more frequently if needed.

SAFETY / HEALTH INFORMATION

WARNING: BEFORE USING PRODUCT, READ MATERIAL SAFETY DATA SHEET. ALKALINE CONCENTRATE: CONTACT CAN QUICKLY DAMAGE EYES, SKIN AND OTHER BODY TISSUES. HANDLE WITH CARE. EYE, SKIN, RESPIRATORY TRACT AND DIGESTIVE TRACT IRRITANT. DO NOT TAKE INTERNALLY. KEEP OUT OF REACH OF CHILDREN. SPRAY MIST IS RESPIRATORY TRACT IRRITANT. Use only with adequate ventilation. Do not breathe vapors or spray mist. Avoid contact with eyes, skin, clothing. Products are not flammable, but if involved in a fire, may produce irritating vapors and toxic gases (e.g., carbon oxides and copper and iron oxides). Possible developmental hazard: contains lithium, may adversely affect developing fetus. Observe appropriate safety and jobsite controls. Wear appropriate protection including eye protection and chemical-resistant gloves. Ensure fresh air flow during application and until dry. If you experience headaches, dizziness, eye watering, or if air monitoring shows vapor/mist levels above applicable limits, wear a properly fitted vapor respirator, used according to manufacturer's directions, during application and drying.

CUSTOMER SUPPORT

Ultralit ColorEX Colorant is available worldwide. For technical assistance, product information, Dealer location - visit our web site at www.ultralit.eu or email at info@ultralit.eu.