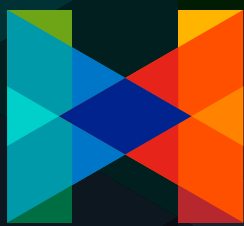


▶ THANK YOU FOR CHOOSING ◀



HELIX
COLOR SYSTEMS

Before beginning any project, please review the enclosed training and materials packets in full, including:

TECH
DATA SHEET

SAFETY
DATA SHEET

Releases

RELEASE POWDER

TECH DATA SHEET

Helix Color Systems is a premier line of specialty decorative concrete systems manufactured for the professional installer. Specializing in custom colors, specialty products, and superior service, Helix Color Systems offers an innovative alternative in the decorative concrete industry.

► DESCRIPTION

Helix Release Powder is designed for use with imprinting tools and engineered for use on all concrete surfaces that are to receive texture; including color hardened concrete, integral colored concrete, gray concrete and stampable overlay. This product allows for the clean release of texturing tools from the concrete surface, and at the same time, creates highlighting color (also called an antiquing effect).

► PRODUCT BENEFITS

- Helix Release Powder—dry-mix formulated powders and color pigments—are designed for the clean release of mat-type texturing tools.
- These products add color-embedded variation to the textured surface, providing highlighting and antiquing effects that closely resemble natural material.
- Helix Release Powder is available in many standard colors. See Helix Standard Color Selection Guide. Custom colors are also available, please contact customer service for information and a price quote.

► APPLICATION

1. The surface is ready for release once concrete reaches the point when no bleed water remains on the surface and when concrete is sufficiently firm to withstand texturing tools and the weight of a work crew. Helix Release Powder should be evenly hand-broadcast

over the entire surface of freshly placed concrete. An alternative application method is to spread Helix Release Powder with a 3/4 inch nap roller in order to achieve light, uniform coverage.

2. Helix Release Powder should remain in a dry state on the concrete surface—the product should not be worked into the surface. Care should be taken not to trowel the powder into the wet concrete. Troweling powdered release into the surface will result in permanent discoloration.
3. Helix Release Powder may be removed as soon as the concrete has hardened to the point that it will not scratch or mar easily (normally two to three days). A three step process for removal is recommend. 1. Dry sweep excess powder from the surface. 2. Lightly scrub the surface with soap and water to removed desired amount of release powder. 3. Rinse with clean water from a hose or power washer (> 1000 psi).

► CURING AND SEALING CONCRETE

1. For curing concrete treated with Helix Release Powder, new, nonwrinkled, nonstaining, reinforced, kraft-curing paper should be used.
2. After release has been washed from the surface and once concrete has dried to a uniform color, sealing the concrete may take place. For sealing concrete, choose from a variety of Helix sealers appropriate to project requirements.

▶ SURFACE PROTECTION AND MAINTENANCE

It is highly recommended to develop and follow a routine maintenance schedule for all colored concrete so that it maintains a top-quality appearance. Colored concrete installations should be routinely inspected, cleaned and resealed as local conditions demand. Cleaning and resealing schedules will depend on a number of factors including, but not limited to, volume and intensity of traffic, maintenance procedures and weather.

▶ LIMITATIONS AND PRECAUTIONS

- Inconsistencies in job site conditions, finishing practices, timing of imprinting, and curing methods may produce variations in the color of the finished product.
- Helix Release Powder may be used on vertical faces of step risers and curbs.
- A NIOSH/MSHA dust respirator and goggles should be worn.

▶ SHELF LIFE AND STORAGE

Helix Release Powder should be kept away from moisture. Shelf life is 2 years.

▶ COVERAGE RATES AND DRYING TIMES

Coverage rates may vary depending on color choice, application method, concrete surface finish, wind conditions, and other local conditions.

- All Colors – 800-1,000 square feet per 30-pound pail.

▶ PACKAGE SIZES

Helix Release Powder is available in 30-pound pails or bags. Custom packaging is available.

▶ TECHNICAL DATA

Please refer to the corresponding MSDS for hazard-related information.

▶ PRODUCT HANDLING

For complete instructions on handling and use, consult the corresponding Material Safety Data Sheet before using product.

▶ WARRANTY

Helix Release Powder, a proprietary product, is warranted to be of uniform quality within manufacturing tolerances. Since control is not exercised over its use, no warranty, expressed or implied, is made as to the effects of such use. Seller's and manufacturer's obligation under this warranty shall be limited to refunding the purchase price of that portion of the material proven to be defective. The user assumes all other risks and liabilities resulting from use of this product.

RELEASE POWDER

SAFETY DATA SHEET

▶ SECTION 1 PRODUCT DESCRIPTION

Product Name:

Helix Release Powder

Recommended Use:

Concrete Pigment / Concrete Surface Color Additive

Supplier:

ChemSystems, Inc. 10101 Genard Road Houston, TX 77041
P: 713.329.9066 support@helixcolorsystems.com
www.helixcolorsystems.com

Emergency Phone:

CHEMTRAC 1-800-424-9300

▶ SECTION 2 HAZARD IDENTIFICATION

Health, Skin corrosion/irritation, 3

Health, Serious Eye Damage/Eye Irritation, 2 B

Health, Specific target organ toxicity – Single exposure, 3



Signal Word: Warning

Hazard Statements:

- H316 – Causes mild skin irritation
- H320 – Causes eye irritation
- H335 – May cause respiratory irritation

Precautionary statements:**Prevention:**

- P264 – Wash thoroughly after handling.
- P284 – Wear respiratory protection.
- P280 – Wear protective gloves/protective clothing/eye protection/face protection.

Note: Product may contain small traces of silica below 1%.

Use respiratory protection and hazard controls. Use particulate protection.

Gloves and/or skin protection is recommended.

Safety glasses or eye protection recommended.

Repeat prolonged exposure above the PEL may cause skin, eye and respiratory irritation.

May aggravate upper respiratory tract conditions with out respiratory protection.

Silica in airborne respirable particulate is known to cause silicosis and lung cancer.

Use respiratory protection.

▶ SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS #	OSHA PEL (TWA)	ACGIH (TLV-TWA)	Conc. (wt. %)
Hydrous Magnesium Silicate	14807-96-6	2 mg/m ³	20 mppcf	>10
Calcium Carbonate	1317-65-3	15 mg/m ³ TWA (Total Dust) 5 mg/m ³ TWA (Respirable)	10 mg/m ³	>10
Inorganic Metal Oxide Mixture	N/A	N/A	N/A	>1

▶ SECTION 4 FIRST AID MEASURES

Emergency First Aid Procedures

Inhalation: Remove from dusty area to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

Skin: Wash with soap and water.

Eyes: Do not rub eyes! Flush immediately and frequently with large quantities of water, for at least 15 minutes and seek immediate medical attention.

Ingestion: Immediately call a physician. Give 2 or 3 glasses of water. Do not induce vomiting.

▶ SECTION 5 FIREFIGHTING PROCEDURES

Suitable Extinguishing Media: Use of CO₂, foam or dry chemical water spray during a fire is recommended.

Unsuitable Extinguishing Media: N/A

Flash Point (TCC): Non-combustible

Flammable Limits (% volume in air for solvents):
LEL=N/A UEL=N/A

Special Fire Fighting Procedures: Use normal fire fighting protective equipment.

▶ SECTION 6 SPILL OR LEAK PROCEDURES

Steps to Take if Material is Released or Spilled: Sweep up and place in waste container. Do not discharge into drains or storm water. May cause discoloration of soil and storm water.

▶ SECTION 7 HANDLING AND STORAGE

Normal Handling: Always use good industrial hygiene practices and safety guidelines.

Storage: Store material in its original container. Keep containers tightly closed when not in use. Keep material away from open flame, sparks, or other sources of heat and ignition.

Waste Disposal Method: Dispose of material in accordance with federal, state, and local guidelines.

Special Precautions: Material can be handled as normal solid waste

▶ SECTION 8 PROTECTION INFORMATION

Respiratory Protection: Use NIOSH respiratory protection, air purifying respirator or dust mask with particulate filtration in accordance with OSHA CFR 29 1910.134 with protection factor as necessary to reduce exposure levels below the PEL.

Ventilation: Ventilation recommended, not required.

Protective Gloves: Gloves recommended, but optional.

Eye Protection: Safety goggles or glasses recommended for dusty conditions.

Other Protective Clothing or Equipment: Coveralls or apron to reduce skin contact and keep personal clothing free of dust.

Work/Hygienic Practices: Wash thoroughly with soap and water after handling and before eating, smoking, or using washroom. If clothes become contaminated, change to clean clothing and wash contaminated clothes before re-use.

▶ SECTION 9 PHYSICAL DATA

- **Appearance:** fine granular solid
- **Odor:** Odorless
- **Odor Threshold:** Odorless
- **pH:** 5–8 pH in water (product is solid)
- **Freezing/Melting Point:** N/A
- **Boiling Point:** 212 °F
- **Flash Point:** N/A
- **Evaporation Rate:** <1
- **Specific Gravity:** N/A
- **Flammability (solid, gas):** Not Flammable
- **Upper/Lower Flammability:** N/A
- **Vapor Pressure:** N/A
- **Vapor Density:** N/A
- **Bulk Density:** 15.5 – 16.5 weight per gallon
- **Solubility:** very slight
- **Partition Coefficient:** N/A
- **Auto-ignition Temperature:** N/A
- **Decomposition temperature:** N/A
- **Viscosity:** N/A

▶ SECTION 10 REACTIVITY DATA

Reactivity: Stable

Conditions to avoid: Strong oxidizing agents

Incompatibility (Materials to Avoid): N/A

Hazardous Decomposition (Byproducts): CO and CO₂.

Hazardous Polymerization: None.

▶ SECTION 11 TOXICITY DATA

Routes of Exposure: Inhalation, Ingestion, eyes, and skin.

Inhalation:

Acute: Airborne dust may cause temporary but reversible respiratory difficulties.

Chronic: Repeated inhalation excess of Permissible TLV over extended periods of time may result in pulmonary fibrosis.

Skin Contact: May be irritating.

Eye Contact: May be irritating.

Ingestion: Irritation, gagging, coughing, choking.

Carcinogen: Not known to be carcinogenic.

Mutagenicity: Not known to be mutagenic.

Teratogenicity: Not known to be teratogenic.

Aggravation of Pre-existing Conditions: May aggravate existent pulmonary conditions and diseases.

▶ SECTION 12 ECOLOGICAL DATA

Ecological testing has not been performed on this product. Dispose of contents and container properly. Do not dump. Contents may cause discoloration in soil and water.

▶ SECTION 13 DISPOSAL INFORMATION

Waste Disposal Method: Dispose of content in accordance with all Federal, State and Local regulations when storing and disposing of substances. Do not allow material to run off work area, and final rinsing should be absorbed or vacuumed and disposed of in accordance with regulations.

RCRA: Not listed.

▶ SECTION 14 TRANSPORT INFORMATION

UN: Not Classified

US DOT: Not Classified

UN Shipping Class: Not Classified

UN Packing Group: Not Classified

▶ SECTION 15 REGULATORY INFORMATION

International Inventories and U.S. Regulations :

All components of this product are listed on or are exempt from the following inventories:

OSHA hazard category: Crystalline silica (quartz) is not regulated as a human carcinogen but as a toxic and hazardous substance.

RCRA This mixture and or its contents are not a hazardous waste if disposal is required

CERCLA Components of this mixture are not CERCLA hazardous substances.

CONEG This mixture and or its contents meet the CONEG limits for the sum of the levels of Lead, Cadmium, Mercury, and Hexavalent Chromium of less than 100 PPM by weight.

RoHS Product does not contain RoHS restricted substances.

ODC This mixture does not contain any Ozone Depleting Compounds.

TOX This mixture does not contain any Organic Halogens (EPA 9020)

CAA of 1990 This mixture is not made with nor does it contain any Class 1 or Class 2 ozone depleting substances as defined under the 1990 amendments to the act.

SARA (302) This mixture does not contain any constituents that are identified as extremely hazardous.

SARA (311/312) Portland cement qualifies as a hazardous substance with delayed health effects. Portland cement may contain crystalline silica which is classified by the IARC as a known carcinogen. Some studies indicate potential for lung cancer or lung injury including silicosis. Reportable in quantities over 10,000 lbs.

CA Prop 65 This product contains a chemical(s) known to the state of California to cause cancer and/or birth defects or other reproductive harm. Pursuant to the California Safe Drinking Water and Toxic Enforcement Act of 1986, we are required to provide the above warning in the absence of definitive testing showing that risks from long-term exposure to chemicals present in our formulations do not exist. To the best of our knowledge, this product complies with all Federal and State laws and regulations governing its manufacturing, distribution, and intended use.

▶ SECTION 16 ADDITIONAL INFORMATION

The regulatory information provided is not intended to be comprehensive. Other Federal, State and Local regulations may apply to this material.

DISCLAIMER: Although the information and recommendations set forth herein are presented in good faith and believed to be correct as of the date hereof, manufacturer makes no representations as to the completeness or accuracy thereof.