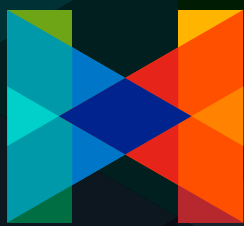


▶ THANK YOU FOR CHOOSING ◀



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

LIQUID RELEASE

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 Liquid Release is a premium, high performance liquid release agent. Helix Liquid Release is a clear, low volatility, slow drying and non-pigment method for releasing all types of texturing tools from the surface. Its low viscosity formula allows for a longer surface life, requiring less frequent re-application.

Helix Liquid Release is an alternative in situations when Helix Release Powder may be prohibitive. Helix Liquid Release is optimal for fast track installation.

► PRODUCT BENEFITS

- Helix Liquid Release utilizes specialty polymers to provide an enhanced positive release of all types of imprinting tools.
- Helix Liquid Release is a release choice for applications where powdered products would be prohibitive, due to risk of damage to surrounding landscape, buildings, and interior finished surfaces.
- A non-pigment parting agent, Helix Liquid Release is used for releasing mat-type texturing tools from wet concrete.
- If properly removed, Helix Liquid Release will not impede the use of Helix ChormaStain*, Helix Concrete Dye, or Helix Sealers*.
- Helix Liquid Release can be colored with Helix liquid coloring tints designed for use with Helix Liquid Release.

► PRE-APPLICATION

1. Helix Liquid Release is applied just before placement of most mat-type imprinting tools during the plastic stage of set.
2. Apply Helix Liquid Release by misting the surface with a pump-up type sprayer equipped with a fan tip. Apply enough Helix Liquid Release to evenly cover the area to be immediately imprinted (150-200 square feet) while avoiding evaporation of the material prior to using texturing mats.
3. Helix Liquid Release will naturally evaporate from the textured concrete surface (usually after 12 hours). After Helix Liquid Release have fully dissipated, alternative colorants can be applied.

► CURING AND SEALING CONCRETE

1. Concrete imprinted with Helix Liquid Release can be cured with any applicable curing compound once all the liquid release has evaporated.
2. If a liquid membrane cure is not appropriate, then new, non-wrinkled, nonstaining, reinforced, kraft-curing paper may be used.
3. After release has been washed or dissipated from the surface and once concrete has dried to a uniform color, sealing the concrete may take place. For finish-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 required by local conditions. 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 Liquid Release has a shelf life of one year.

▶ COVERAGE RATES AND DRYING TIMES

Note – Actual coverage may vary depending on the application method, wind conditions, texture of concrete prior to application, and other local conditions.

- Under normal conditions, Helix Liquid Release will cover approximately 150–200 sq. ft./gallon.

▶ PACKAGE SIZES

Helix Liquid Release is packaged in 1-, 5- and 55-gallon containers.

▶ PRODUCT HANDLING

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

▶ WARRANTY

Helix Liquid Release, 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. If you have any questions, please contact ChemSystems, Inc.

LIQUID RELEASE

SAFETY DATA SHEET

▶ SECTION 1 PRODUCT DESCRIPTION

Product Name:

Helix Release Powder

Recommended Use:

Liquid stamp release for concrete

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

Category 3 Flammable Liquid

Category 2 Skin Irritation

Category 2A Eye Irritation

Category 3 Specific Target Organ Acute Toxicity (Central Nervous System)

Category 1 Aspiration Hazard



Signal Word: Danger

Hazard Statements:

- H226 Flammable liquid and vapor.
- H304 May be fatal if swallowed and enters airways
- H315 Causes skin irritation
- H319 Causes serious eye irritation
- H336 May cause drowsiness or dizziness

Precautionary statements:**Prevention:**

- P210 Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking
- P233 Keep container tightly closed
- P260 Do not breathe mist/vapors/spray
- P264 Wash skin thoroughly after handling
- P271 Use only outdoors or in a well-ventilated area
- P281 Use personal protective equipment as required

Response:

- P301+P310+P331 IF SWALLOWED: Do NOT induce vomiting. Immediately call a poison center or doctor/physician
- P303+P361+P353 IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower
- P304+P340+P311 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center or doctor/physician.
- P305+p351+p338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P332+P313 If skin irritation occurs: Get medical advice/attention
- P362 Take off contaminated clothing and wash before reuse
- P370+P378 In case of fire: Use dry sand, dry chemical, or alcohol-resistant foam for extinction

Storage:

- P403+P233+P235 Store in a well-ventilated place. Keep container tightly closed. Keep cool.

Disposal:

- P501 Dispose of contents/container in accordance with local/federal regulations.

▶ SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS #	OSHA PEL (TWA)	ACGIH (TLV-TWA)	Conc. (wt. %)
Petroleum Naphtha, heavy	Proprietary	500 ppm	N/A	0.0 – 100.0
Naphtha, hydrotreated heavy	Proprietary	500 ppm	N/A	0.0 – 100.0

▶ SECTION 4 FIRST AID MEASURES

Emergency First Aid Procedures

Skin: Clean material from skin with soap and water followed by moisturizer.

Eyes: Flush with a gentle but large stream of clean water for 15 minutes, lifting the lower and upper eyelids occasionally. Call a physician if irritation persists.

Inhalation: Move to fresh air and provide oxygen if breathing is difficult. Seek medical attention if irritation persists.

Ingestion: DO NOT INDUCE VOMITING. Give large quantities of water. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs. Get medical attention immediately.

▶ SECTION 5 FIREFIGHTING PROCEDURES

Suitable Extinguishing Media: Dry chemical, CO₂, foam, water fog.

Flash Point (TCC): 140° F

Flammable Limits (% volume in air for solvents):
LEL=0.6 UEL=7.0

Special Fire Fighting Procedures: Evacuate area and fight fire from a distance. Firefighters wear NIOSH approved self-contained breathing apparatus. Cool containers exposed to fire with water. Vapors are heavier than air and may travel along the ground to distant ignition sources.

▶ SECTION 6 SPILL OR LEAK PROCEDURES

Steps to Take if Material is Released or Spilled: No health affects expected from the clean-up of the material if contact can be avoided. Follow the protection information found in Section 8 of this SDS. Absorb spillage in suitable inert material. Sweep or scrape up and containerize.

▶ 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: Use proper bonding/grounding techniques to avoid static buildup/discharge, which can ignite vapors. Empty containers may contain explosive levels of vapor. Do not cut, drill, or weld near the containers.

▶ SECTION 8 PROTECTION INFORMATION

Respiratory Protection: Use NIOSH-approved organic vapor respirator when exposure levels cannot be maintained below limits or the chance of mist inhalation is present.

Ventilation: Provide adequate mechanical ventilation to keep exposure levels below TLV's.

Protective Gloves: Wear impervious chemical gloves.

Eye Protection: Wear chemical safety glasses.

Other Protective Clothing or Equipment: As needed to prevent repeated/prolonged contact.

Work/Hygienic Practices: Use only in adequately-ventilated area unless recommended respiratory protection is used. 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:** Clear liquid
- **Odor:** Typical hydrocarbon
- **Odor Threshold:** No data available
- **pH:** none
- **Freezing/Melting Point:** N/A
- **Boiling Point:** >340 °F
- **Flash Point:** 140° F
- **Evaporation Rate:** 0.09 (butyl acetate=1)
- **Specific Gravity:** N/A
- **Flammability (solid, gas):** No data available
- **Upper/Lower Flammability:** 0.6–7.0 (% vol. in air)
- **Vapor Pressure:** 0.1 mm Hg @ 20° C
- **Vapor Density:** 5.5
- **Relative Density:** 0.77 g/cc
- **Solubility:** Negligible solubility in water
- **Partition Coefficient:** Not determined
- **Auto-ignition Temperature:** 500°F
- **Decomposition temperature:** Not determined
- **Viscosity:** Not determined
- **Specific Gravity (h20=1):** 0.77

▶ SECTION 10 REACTIVITY DATA

Reactivity: Stable

Conditions to avoid: Prevent vapor accumulation. Avoid heat, sparks, and flames.

Incompatibility (Materials to Avoid): Strong acids and oxidizing materials.

Hazardous Decomposition (Byproducts): CO and CO₂.

Hazardous Polymerization: Should not occur.

▶ SECTION 11 TOXICITY DATA

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

Acute Toxicity Lethal Doses (ATE):

LC50 (inhl) >5610 mg/l

LD50 (oral) >5000 mg/kg

LD50 (skin) >3000 mg/kg

Health Hazards:

Acute: Minimally toxic. May cause eye, skin, gastrointestinal, and lung irritation. May cause central nervous system excitation followed by depression.

Chronic: Prolonged and repeated exposures to high concentrations may cause liver and kidney damage.

Skin Contact: May cause irritation and redness. Prolonged or repeated exposure can cause defatting and drying of the skin, which may result in a burning sensation and a dried, cracked appearance.

Eye Contact: May cause redness, tearing, blurred vision, and irritation of the eyes.

Inhalation: Overexposure may cause headache, nausea, dizziness, and loss of coordination.

Ingestion: May be harmful if swallowed. Aspiration of the material into the lungs can cause chemical pneumonitis, which can be fatal.

Carcinogen: None.

Aggravation of Pre-existing Conditions: Persons with pre-existing skin, eye, or lung disorders may be more susceptible to the effects of the substance.

▶ SECTION 12 ECOLOGICAL DATA

Acute Toxicity to Fish: No data available

Acute Toxicity to Aquatic Invertebrates: No data available

Toxicity to Aquatic Plants: No data available

Toxicity to Microorganisms: No data available

Chronic Toxicity to Fish: No data available

Chronic Toxicity to Aquatic Invertebrates: No data available

Persistence and Degradability: Expected to degrade readily and rapidly in the presence of oxygen

Bioaccumulation Potential: This material is not expected to bioaccumulate

Mobility in the Soil: Adsorbs in soil

Other Adverse Effects: None established

▶ SECTION 13 DISPOSAL INFORMATION

Waste Disposal Method: Liquid material is an ignitable waste (D001). Dispose of material in accordance with all Federal, State, and Local regulations.

▶ SECTION 14 TRANSPORT INFORMATION

For Domestic (US) Ground Transport: Non-Regulated
Material in <119-gallon containers

For all other modes:

Proper Shipping Name Paint Related Material

Hazard Class: 3

UN : UN1263

Packing Group: Not Classified

Packing Group: PGIII

Marine Pollutant: No

▶ SECTION 15 REGULATORY INFORMATION

SARA 311/312: (Yes. Fire, Acute, Chronic)

OSHA: This material is hazardous by definition of Hazardous Communications Standard (29 CFR 1910.1200).

TSCA: Components of this material are either listed or are exempt from the EPA TSCA Inventory of Chemical Substances. **SARA (302)** This mixture does not contain any constituents that are identified as extremely hazardous.

CA Prop 65: This product contains no chemicals known to the State of California to cause cancer or reproductive harm.

Massachusetts Right To Know: None.

Pennsylvania Right To Know:

Petroleum Naphtha, heavy Proprietary 0.0 – 100.0%

Naphtha, hydrotreated heavy Proprietary 0.0 – 100.0%

New Jersey Right To Know:

Petroleum Naphtha, heavy Proprietary 0.0 – 100.0%

Naphtha, hydrotreated heavy Proprietary 0.0 – 100.0%

▶ 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.