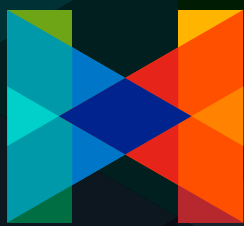


▶ THANK YOU FOR CHOOSING ◀



HELIX
COLOR SYSTEMS

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

**TECH
DATA SHEET**

**SAFETY
DATA SHEET**

Cleaners, Strippers and Accessory Products

STAIN PRETREATMENT & CONCRETE CLEANER

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 Stain Pretreatment and Concrete Cleaner is a detergent modified weak mineral acid concentrate used to clean mineral deposits from concrete, as well as prepare concrete substrates for staining with Helix ChromaStain* and Helix Concrete Dye*.

► PRODUCT BENEFITS

- Helix Stain Pretreatment and Concrete Cleaner will remove some minerals (mineral scale and efflorescence) from surface as well as clean concrete surface.
- This solvent is especially useful for preparation of concrete prior to application of Helix Solvent Sealers*.
- With proper dilution and application, Helix Stain Pretreatment and Concrete Cleaner will not change the color or damage the concrete.
- Applied to concrete prior to staining, Helix Stain Pretreatment and Concrete Cleaner may help enhance the colors and effects of Helix ChromaStain* and Helix Concrete Dye*.

► PRE-APPLICATION

1. **Dilution Ratios** – Helix Stain Pretreatment and Concrete Cleaner is a concentrate and must be diluted. One part to 20 parts water: 6 ounces to one gallon of water or one quart per five gallons of water.
2. Before using, test Helix Stain Pretreatment and Concrete Cleaner in an inconspicuous area to ensure compatibility. For any questions regarding compatibility with existing surface, consult ChemSystems, Inc.

► APPLICATION TO CONCRETE

1. Apply with an acid-proofed, all plastic, low-volume pump-up sprayer, allowing 5-10 minutes "dwell" time. When used to prepare concrete surfaces prior to acid staining with Helix ChromaStain*, skip steps 2 and 3.
2. Follow with pressure washing. To increase cleaning efficiently, scrub with a Nylo-grit brush before pressure washing.
3. Rinse thoroughly and let dry.
4. When used to prepare concrete surfaces prior to staining with Helix ChromaStain*, it is not necessary to pressure wash surface. Apply Helix ChromaStain* directly to treated surface, and follow Helix ChromaStain* application guidelines.

▶ SHELF LIFE AND STORAGE

Helix Stain Pretreatment and Concrete Cleaner has a shelf life of one year. Store indoors, away from heat and direct sunlight. Do not allow to freeze.

▶ COVERAGE RATES AND DRYING TIMES

Coverage rates may vary depending on surface porosity, texture, age and condition of the concrete, the application method, and other local conditions.

- Material usage is approximately 4,000 square feet per gallon.

▶ PACKAGE SIZES

Helix Stain Pretreatment and Concrete Cleaner is available in 1- and 5-gallon units.

▶ APPLICABLE STANDARDS

Helix Stain Pretreatment and Concrete Cleaner complies with ASTM D3209-82 for freeze/thaw stability for a minimum of three cycles.

▶ TECHNICAL DATA

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

Color/Odor	Red/Mild
Detergent Type	Nonionic
Solubility in Water	100% for hard, soft or deionized water
pH	0.5 ± 0.2
Surface Tension	29 dynes per cm at dilution of two oz./gal.
Specific Gravity	1.3 (H ₂ O=1)
Density	11 pounds per gallon
Flash Point	None
VOC Content	Less than 1%
Biodegradable	Yes

▶ PRODUCT HANDLING

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

▶ WARRANTY

Helix Stain Pretreatment and Concrete Cleaner, 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.

STAIN PRETREATMENT & CONCRETE CLEANER

SAFETY DATA SHEET

▶ SECTION 1 PRODUCT DESCRIPTION

Product Name:

Helix Sealer Stripper

Recommended Use:

Etching/Cleaning 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 1B Skin Corrosive

Category 4 Acute Oral Toxicity

Category 2 Skin Irritant

Category 2A Eye Irritation



Signal Word: Danger

Hazard Statements:

- H314 Causes severe skin burns and eye damage
- H302 Harmful if swallowed
- H315 Causes skin irritation
- H319 Causes serious eye irritation

Precautionary statements:**Prevention:**

- P102: Keep out of reach of children.
- P264: Wash hands thoroughly after handling.
- P270: Do not eat, drink, or smoke while using this product.
- P234: Keep only in original container.
- P271: Use only in a well-ventilated area.

- P285: In case of inadequate ventilation, wear respiratory protection.

- P280: Wear protective gloves and eye protection.

Response:

- P302+P352: IF ON SKIN: Wash with plenty of soap and water.
- P332+P313: If skin irritation occurs: Get medical advice/attention.
- P363: Wash contaminated clothing before reuse.
- P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P337+P313: If eye irritation persists: Get medical advice/attention.
- P301+P313: IF SWALLOWED: Get medical advice/attention.
- P331: Do not induce vomiting.

▶ SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS #	Conc. (wt. %)
Mineral Acid Salt of Organic Amide	506-89-8	50-70%

▶ SECTION 4 FIRST AID MEASURES

Emergency First Aid Procedures

Skin: Remove contaminated clothing and rinse the affected area for at least 20 minutes. Thoroughly wash with soap and water until no evidence of the chemical remains. For chemical burns, cover with proper dressing and bandage. Call a physician.

Eyes: Flush with water for 20 minutes lifting upper and lower eyelids occasionally. Continue irrigation with normal saline until pH returns to normal. Call a physician.

Inhalation: Remove to fresh air. Administer artificial respiration if necessary. Call a physician.

Ingestion: Drink large amounts of water or milk to dilute the acids. Do not induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs. If vomiting occurs, give fluids again. Ingested acid must be diluted 100:1 to render harmless to tissues.

▶ SECTION 5 FIREFIGHTING PROCEDURES

Extinguishing Media: Dry chemical, alcohol-resistant foam, or CO₂

Flash Point (TCC): N/A

Flammable Limits (% volume in air for solvents):
LEL=NOT DETERMINED UEL=NOT DETERMINED

Special Fire Fighting Procedures: Reactions with metals and water can liberate hydrogen gas and may form explosive mixture in the air. At high temperatures toxic corrosive fumes of anhydrous gas may be emitted. Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full face-piece operated in pressure-demand or positive-pressure mode.

▶ SECTION 6 SPILL OR LEAK PROCEDURES

Small Spills: Spills may be absorbed using cement powder or fly ash and shoveled into containers. Neutralize spills with lime, sodium bicarbonate or crushed limestone and prevent runoff. Notify proper authorities if runoff should occur.

Large Spill Containment: For large spills, dike far ahead of liquid spill for later disposal. Do not release into sewers or waterways.

Cleanup: Spills may be absorbed using cement powder or fly ash and shoveled into containers. Neutralize spills with lime, sodium bicarbonate or crushed limestone and prevent runoff. Notify proper authorities if runoff should occur.

Regulatory Requirements: Follow applicable OSHA regulations (29 CFR 1910.120).

Disposal Regulatory Requirements: Follow applicable Federal, state, and local regulations.

Container Cleaning and Disposal: Containers must not be washed out or used for other purposes. Do not weld or flame cut empty containers.

▶ SECTION 7 HANDLING AND STORAGE

Normal Handling: Keep away from chlorine-type bleaches and other household chemicals. Use only in well ventilated areas.

Storage: Store material in its original container. Keep containers tightly closed when not in use.

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

Special Precautions: Avoid breathing vapors. Avoid freezing

▶ SECTION 8 PROTECTION INFORMATION

Respiratory Protection: Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear an OSHA/NIOSH approved respirator. Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contaminations, and presence of sufficient oxygen. For emergency or non-routine operations (cleaning spills, reactor vessels, or storage tanks), wear an SCBA.

Ventilation: Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs (Sec. 2). Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.

Protective Clothing/Equipment: Wear chemically protective gloves, boots, aprons, and gauntlets to prevent prolonged or repeated skin contact.

Eye Protection: Wear protective eyeglasses or chemical safety goggles, per OSHA eye and face protection regulations (29 CFR 1910.133). Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.

Safety Stations: Make emergency eyewash stations, safety/quick drench showers, and washing facilities available in work area.

Contaminated Equipment: Separate contaminated work clothes from street clothes. Launder before reuse. Remove this material from your shoes and clean personal protective equipment.

Comments: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

▶ SECTION 9 PHYSICAL DATA

- **Appearance:** Amber liquid
- **Odor:** Chloride odor
- **Odor Threshold:** No data available
- **pH:** <1
- **Melting Point:** Not determined
- **Freezing Point:** <32° F
- **Boiling Point:** 212° F (102 °C)
- **Flash Point:** >199°F (>93°C)
- **Evaporation Rate:** Not determined
- **Flammability (solid, gas):** Non-flammable under normal conditions
- **Upper/Lower Flammability:** N/A
- **Vapor Pressure:** 17 mm Hg @ 68°F
- **Vapor Density:** Not determined
- **Relative Density:** Heavier than water
- **Water Solubility:** 100%
- **Partition Coefficient:** No data available
- **Auto-ignition Temperature:** N/A
- **Decomposition temperature:** Not determined
- **Viscosity:** 1.004 centistokes (20° C)
- **Specific Gravity (H2O=1, at 4 °C):** 1.205 g/cc

▶ SECTION 10 REACTIVITY DATA

Reactivity: Stable at room temperature in closed containers under normal storage and handling conditions

Conditions to avoid: Heat, open flame, reactive metals, and strong oxidizers.

Incompatibility (Materials to Avoid): Contact with common metals, including aluminum or magnesium, may produce hydrogen which may form explosive mixtures in the air.

Hazardous Decomposition (Byproducts): Thermal oxidative decomposition can produce toxic and hazardous gases including fumes of hydrogen chloride.

Hazardous Polymerization: Hazardous polymerization cannot occur under normal temperatures and pressures.

▶ SECTION 11 TOXICITY DATA

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

Acute Toxicity Lethal Doses (ATE):

No Data Available

Skin Contact: Prolonged contact may cause severe irritation, inflammation, ulceration, and burns.

Eye Contact: May cause severe irritation, impairment and permanent damage.

Inhalation: Burning sensation in the throat, coughing and choking.

Ingestion: Burns of the mouth, throat, esophagus and stomach with consequent pain, uneasiness, nausea, vomiting, diarrhea, chills and intense thirst.

Carcinogen: None

Aggravation of Pre-existing Conditions: Inhalation of fumes may aggravate existing lung problems. Skin contact may aggravate existing conditions.

▶ SECTION 12 ECOLOGICAL DATA

Acute Toxicity to Fish: Harmful to fish. Concentrated product entering water will lower the pH and cause damage to fish. When diluted for use, the pH increases significantly and danger is lowered.

Acute Toxicity to Aquatic Invertebrates: Harmful to fish. Concentrated product entering water will lower the pH and cause damage to fish. When diluted for use, the pH increases significantly and danger is lowered.

Persistence and Degradability: No data available

Bioaccumulation Potential: Does not accumulate in organisms

Mobility in the Soil: High mobility in wet soil

Other Adverse Effects: No further information available

▶ SECTION 13 DISPOSAL INFORMATION

Waste Disposal Method: Dispose of material in accordance with all Federal, State, and Local regulations. Must not be disposed of with household garbage. Do not allow product to reach waterways or storm sewers.

▶ SECTION 14 TRANSPORT INFORMATION

Proper Shipping Name: Corrosive Liquid, Acidic, Organic, n.o.s. (Urea Hydrochloride)

Hazard Class: 8

UN : UN3265

Packing Group: PGIII

▶ SECTION 15 REGULATORY INFORMATION

RCRA Hazardous Waste Number (40 CFR 261.33): Possibly D002

SARA 311/312: Yes. Acute.

TSCA: All components of this material are on the US TSCA Inventory or are exempt.

State Regulations: Consult individual state agency for further information.

CA Prop 65: None

▶ 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.