

▶ 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

orders@shophelix.com • 713.329.9066 • shophelix.com

Concrete Sealer **PENETRATING****REPELWB****TECH DATA SHEET**

Helix Color Systems is a premier line of specialty decorative concrete admixtures manufactured by ChemSystems Inc. Helix Color Systems is manufactured for the discriminating installer or designer who values service and quality. Specializing in custom colors, specialty products, and superior service, Helix Color Systems offers an innovative alternative in the decorative concrete industry.

**► DESCRIPTION**

Helix RepelWB is a water-based Silicone water repellent made of special hybrid of Silane and Siloxane. Helix RepelWB provides water repellency to porous construction materials such as bricks, stone, concrete blocks, mortar and grout. Helix RepelWB helps protect concrete existing or newly poured concrete from salt, freeze and water damages. It is not suitable for very low-porosity substrates such as polished stone.

The active ingredients in Helix RepelWB are a mixture of different sized particles, some larger and some smaller, to fill different voids. This ensures product penetration into porous substrates resulting in excellent coverage and durable water repellency. In addition the active ingredients in Helix RepelWB can chemically react with the substrate ensuring long-lasting performance.

With an application of Helix RepelWB the water beads up fast on treated substrates and is immediately apparent without any change in the substrate's original appearance. Helix RepelWB is an easy to use, water-based product with less than 100 g/l VOC that complies with today's regulatory trend of limiting the use of volatile organic compounds.

► PRODUCT BENEFITS

- It can be applied to green concrete once bleed water is gone
- Fast beading action—excellent water repellency
- Non-SiH: easy to store and handle, easy to ship; vented containers not required
- Low VOC, supports your regulatory compliance efforts
- Water-based, easy to use and clean up.

► PRE-APPLICATION

1. Always test a small area for compatibility before proceeding with application.
2. Do not use on surfaces that have been previously sealed.
3. If after application, white film forms, wash away with water. If it persists, scrub with brush and water.
4. Protect adjacent areas from overspray, especially glass, metal, ceramics, glazed tile aluminum, wood and vegetation. Protect or remove personal items such as watches, jewelry, etc.

▶ APPLICATION

1. Helix RepelWB may be applied to dry or damp concrete, be sure that freshly poured concrete is solid enough to walk on before application.
2. Apply Helix RepelWB thoroughly with a sprayer, roller or brush. For the best effect, rolling Helix RepelWB onto surface is the recommended method.
3. Helix RepelWB does not alter the appearance of the substrate when dry. When wet, substrate will repel water.

▶ SURFACE PROTECTION & MAINTENANCE

Sweep floor regularly. Wet mop or scrub floor as needed using warm water.

▶ COVERAGE RATES

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

- 200 sq. ft. per gallon per coat (Approx., depending on porosity of surface)

VOC: <100 g/l VOC Standard

Flashpoint: 40°

DOT: UN1263/PAINT/3/PGII

Solvent: Aromatic Petroleum Naphtha
& Tert-Butyl Acetate.

Solids: 10% (Higher solids available
upon request)

▶ PRODUCT HANDLING

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

Safety

Use gloves and glasses when handling

First Aid

Eyes - If contact with eyes, flush thoroughly with water.

Skin - Wash with soap and water.

Internal - Do not induce vomiting. Contact a doctor.

▶ WARRANTY

Helix RepelWB, 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.

Concrete Sealer **PENETRATING**

REPELWB

SAFETY DATA SHEET

▶ SECTION 1 PRODUCT DESCRIPTION

Product Name:

RepelWB

Recommended Use:

Penetrating Concrete Sealer

Supplier:

ChemSystems, Inc. 10101 Genard Road Houston, TX 77041

P: 800.545.9827 F: 713.329.9065

www.chemsystemsinc.net

Emergency Phone:

INFOTRAC 1-800-535-5035

- P305+ P351+P338+P314 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. Get medical advice if you feel unwell.

▶ SECTION 2 HAZARD IDENTIFICATION

Category 3 Skin Irritation

Signal Word: Warning

Hazard Statements:

- H316 Causes mild skin irritation

Precautionary statements:**Prevention:**

- P261 Avoid breathing mist
- P280 Wear eye protection
- P270 Do not eat, drink, or smoke while using this product

Response:

- P301+P314 IF SWALLOWED: Get medical advice if you feel unwell.
- P302+P353 IF ON SKIN: Rinse skin with water.
- P304+P340+P342+P313 IF INHALED: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Get medical advice.

▶ SECTION 3 COMPOSITION/ INFORMATION ON INGREDIENTS

	CAS #	OSHA PEL(TWA)	ACGIH(TLV-TWA)	Conc.(wt. %)
Triethoxyoctylsilane	2943-75-1	Not established	Not established	4.0 – 6.0
Polyethylene oxide lauryl ether	9002-92-0	Not established	Not established	0.25 – 0.30
Aminofunctional siloxane	68554-54-1	Not established	Not established	1.0 – 2.0
Dihydrogen Oxide	7732-18-5	N/A	N/A	85.0 – 98.0

▶ SECTION 4 FIRST AID MEASURES

Emergency First Aid Procedures

- **Skin:** Immediately flush with water for 15 minutes. Seek medical attention if irritation persists.
- **Eyes:** Flush with a gentle but large stream of clean water for 15 minutes, lifting the lower and upper eyelids occasionally. Seek medical attention.
- **Inhalation:** Move to fresh air and provide oxygen if breathing is difficult. Seek medical attention if irritation persists.
- **Ingestion:** DO NOT INDUCE VOMITING. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs. Get medical attention immediately.

▶ SECTION 5 FIREFIGHTING PROCEDURES

- **Extinguishing Media:** Dry chemical, CO₂, alcohol-resistant foam
- **Flash Point (TCC):** >212° F
- **Flammable Limits (% volume in air for solvents):** LEL=N/A UEL=N/A
- **Special Fire Fighting Procedures:** Firefighters wear NIOSH approved self-contained breathing apparatus. Cool containers exposed to fire with water.

▶ 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. Ventilate the contaminated area. Prevent the spread of spilled material by using a suitable absorbent material.

▶ 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.
- **Waste Disposal Method:** Material is not considered a RCRA Hazardous Waste. Dispose of material in accordance with federal, state, and local guidelines.
- **Special Precautions:** Avoid breathing mist. Avoid freezing.

▶ SECTION 8 PROTECTION INFORMATION

Methyl alcohol forms on contact with water or humid air. Provide adequate ventilation to control exposures within guidelines of OSHA PEL: TWA 200 ppm and ACGIH TLV-skin: TWA 200 ppm, STEL 250 ppm. Ethyl alcohol is formed upon contact with water or humid air. Provide adequate ventilation to control exposures within guidelines of OSHA PEL (final rule): TWA 1000 ppm and ACGIH TLV: STEL 1000 ppm.

- **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:** Milky liquid
- **Odor:** Mild
- **Odor Threshold:** No data available
- **pH:** 8–9
- **Freezing/Melting Point:** Not determined
- **Boiling Point:** Not determined
- **Flash Point:** N/A
- **Evaporation Rate:** Not determined
- **Flammability (solid, gas):** Non-flammable liquid
- **Lower/Upper Flammability:** Not determined
- **Vapor Pressure:** Not determined
- **Vapor Density:** 0.62 (air=1)
- **Relative Density:** 1.0 g/cc
- **Solubility:** Miscible with water
- **Partition Coefficient:** No data available
- **Auto-ignition Temperature:** Not determined
- **Decomposition temperature:** Not determined
- **Viscosity:** 1.004 centistokes (20° C)

▶ SECTION 10 REACTIVITY DATA

- **Reactivity:** Stable
- **Conditions to avoid:** None known.
- **Incompatibility (Materials to Avoid):** Strong oxidizers.
- **Hazardous Polymerization:** Should not occur.

▶ SECTION 11 TOXICITY DATA

- **Routes of Exposure:** Inhalation, Ingestion, eyes, and Skin.
- **Acute Toxicity Lethal Doses (ATE):**
 - LD50 (oral) 100 g/kg
 - LC50 (inhl) 800 mg/l
 - LD50 (skin) 100 g/kg
- **Health Hazards:**
 - **Acute:** May cause skin irritation. Inhalation of vapor/mist may irritate nose and throat and/or cause drowsiness. Ingestion of large quantities may cause drowsiness, dizziness, confusion, or loss of coordination. Direct eye contact may cause moderate irritation.
 - **Chronic:** Prolonged and repeated exposures can cause moderate skin irritation. Repeated ingestion or swallowing large amounts may cause internal injury.
 - **Skin Contact:** May cause irritation. Prolonged or repeated exposure can cause moderate irritation.
 - **Eye Contact:** Direct contact may cause moderate eye irritation.
 - **Inhalation:** May irritate nose and throat and/or cause drowsiness. Continued inhalation may result in liver damage.
 - **Ingestion:** May cause drowsiness, dizziness, and loss of coordination. Repeated ingestion of large quantities may cause internal injury. Aspiration of the material into the lungs may result in chemical pneumonitis, which can be fatal.
- **Carcinogen:** No.
- **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 toxicity at the limit of solubility
- **Toxicity to Aquatic Plants:** No toxicity at the limit of solubility
- **Toxicity to Microorganisms:** No data available

- **Chronic Toxicity to Fish:** No data available
- **Chronic Toxicity to Aquatic Invertebrates:** No data available
- **Persistence and Degradability:** Not persistent in aquatic environments
- **Bioaccumulation Potential:** This material does not bioaccumulate.
- **Mobility in the Soil:** Expected to move slowly in soil and water
- **Other Adverse Effects:** None established

▶ SECTION 13 DISPOSAL INFORMATION

- **Waste Disposal Method:** Material is not considered a RCRA Hazardous Waste. Dispose of material in accordance with all Federal, State, and Local regulations.

▶ SECTION 14 TRANSPORT INFORMATION

- **Proper Shipping Name:** Non-Regulated Material
- **Hazard Class:** N/A
- **UN:** N/A
- **Packing Group:** N/A
- **Marine Pollutant:** No

▶ SECTION 15 REGULATORY INFORMATION

- **SARA 311/312:** Yes (acute)
- **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.

California Proposition 65:

WARNING! This product contains a chemical known to the State of California to cause cancer.

- 75-07-0 Acetaldehyde <0.005%

WARNING! This product contains a chemical known to the State of California to cause birth defects or other reproductive harm:

- 67-56-1 Methyl Alcohol <0.05%

Massachusetts Right To Know:

- 2943-75-1 Triethoxyoctylsilane 4.0 – 6.0
- 68554-54-1 Aminofunctional siloxane 1.0 – 2.0

Pennsylvania Right To Know:

- 2943-75-1 Triethoxyoctylsilane 4.0 – 6.0
- 68554-54-1 Aminofunctional siloxane 1.0 – 2.0

New Jersey Right To Know:

- 2943-75-1 Triethoxyoctylsilane 4.0 – 6.0
- 68554-54-1 Aminofunctional siloxane 1.0 – 2.0

▶ 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.