

SONOCRETE KURE-N-SEAL 30

Version 1.2

3/26/02

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Company	:	ChemRex US	ChemRex CA
		889 Valley Park Drive	1800 Clark Blvd
		SHAKOPEE, MN 55379	BRAMPTON, ON L6T 4M7
		USA	Canada
Phone	:	952-496-6000	905-799-1985
Fax	:		
Emergency contact	:	1-800-424-9300	
Productname	:	SONOCRETE KURE-N-SEAL 30	
MSDS	:	10992	

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

ITEM	CHEMICAL NAME	CAS NUMBER	WT/WT % LESS THAN
01	xylene	1330-20-7	5.0 %
02	Naphtha-light aromatic	64742-95-6	50.0 %
03	1,2,4 Trimethyl Benzene	95-63-6	25.0 %
04	cumene	98-82-8	5.0 %

ITEM	EXPOSURE LIMITS				COMPANY	SKIN
	ACGIH		OSHA			
	TLV-TWA	TLV-STEL	PEL-TWA	PEL-CEILING	TLV-TWA	
01	100 ppm	150 ppm	435 mg/m3	N.E.	N.E.	NO
02	N.E.	N.E.	435 mg/m3	N.E.	N.E.	NO
03	123 mg/m3	N.E.	125 mg/m3	N.E.	N.E.	NO
04	246 mg/m3	N.E.	245 mg/m3	N.E.	N.E.	YES

(See Section 16 for abbreviation legend)

SECTION 3 - HAZARDOUS IDENTIFICATION

EFFECTS OF OVEREXPOSURE - EYE CONTACT: Causes eye irritation.

EFFECTS OF OVEREXPOSURE - SKIN CONTACT: Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).

EFFECTS OF OVEREXPOSURE - INHALATION: Headaches, dizziness, nausea,

SONOCONCRETE KURE-N-SEAL 30

Version 1.2

3/26/02

SECTION 3 - HAZARDS IDENTIFICATION

decreased blood pressure, changes in heart rate and cyanosis may result from over-exposure to vapor. Prolonged inhalation may be harmful.

EFFECTS OF OVEREXPOSURE - INGESTION: Moderately toxic.

EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS: Chronic overexposure to xylene may cause damage to the formed elements of blood [e.g., red cells, which carry oxygen]. Reports indicate that repeated and prolonged overexposure of the eyes to xylene vapor may cause corneal injury. No known components of this product are listed as known or suspected carcinogens per NIOSH, NTP, IARC, or OSHA. This product contains solvents. Reports associate repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Reports also indicate that solvents cause liver damage, kidney damage, and mucous membrane irritation. Be warned that intentional misuse by deliberately inhaling the vapors and/or the product contents (a process often called "sniffing") may be harmful or fatal.

PRIMARY ROUTE(S) OF ENTRY: INHALATION INGESTION SKIN CONTACT

SECTION 4 - FIRST AID MEASURES

FIRST AID - EYE CONTACT: Flush eye with water for 15 minutes. Get medical attention.

FIRST AID - SKIN CONTACT: Remove contaminated clothing and shoes. Wash affected area(s) thoroughly with soap and water. If irritation persists, seek medical attention.

FIRST AID - INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.

FIRST AID - INGESTION: If swallowed, DO NOT induce vomiting. Give victim a glass of water or milk. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person. Should vomiting occur, be sure to keep victim's head below hips to avoid aspiration of vomitus into lungs.

SECTION 5 - FIRE FIGHTING MEASURES

FLASH POINT: 100 F

LOWER EXPLOSIVE LIMIT: 0.9 %

UPPER EXPLOSIVE LIMIT: 7.0 %

AUTOIGNITION TEMPERATURE: N/D

SONOCONCRETE KURE-N-SEAL 30

Version 1.2

3/26/02

SECTION 5 - FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: CO2 DRY CHEMICAL FOAM

UNUSUAL FIRE AND EXPLOSION HAZARDS: Fire produces irritating or poisonous gas. Vapors can travel to a source of ignition and flash back. "Empty" containers retain product residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; CONTAINERS MAY EXPLODE AND CAUSE INJURY OR DEATH. Solid stream of water or foam may cause frothing.

SPECIAL FIREFIGHTING PROCEDURES: May be ignited by heat, sparks or flame. Containers exposed to fire should be kept cool with water spray. Containers can build up pressure if exposed to heat (fire). As in any fire, wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent) and full protective gear. Water runoff can cause environmental damage. Dike and collect water used to fight fire.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Ventilate the area and remove all sources of ignition. Evacuate unnecessary personnel. Large spills should be handled carefully. Put on respiratory protection and necessary personal protective equipment. Dike or impound spilled liquid. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Repeat sorbent/sweep cycle until the spill has dried up. Avoid runoff into storm sewers and ditches which lead to waterways.

SECTION 7 - HANDLING AND STORAGE

HANDLING: Use only in a well ventilated area. Keep out of reach of children. Ground and bound containers when transferring material.

STORAGE: Do not store in direct sunlight. Keep away from heat, sparks and flame. Keep container closed when not in use.

SONOCONCRETE KURE-N-SEAL 30

Version 1.2

3/26/02

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Local exhaust ventilation may be necessary to control any air contaminants to within their TLVs during the use of this product.

RESPIRATORY PROTECTION: Wear NIOSH/MSHA approved respiratory protection when the product is mixed or applied in a poorly ventilated area or if workplace levels of ingredients exceed the TLV. Follow applicable federal, state, and local regulations.

OTHER PROTECTIVE EQUIPMENT: Where contact is likely, wear chemical resistant gloves, chemical safety goggles with a face shield, and clean protective clothing to cover arms and legs to keep exposure to a minimum.

HYGIENIC PRACTICES: Do not take internally. Wash thoroughly after handling. Avoid breathing vapors from heated material. Avoid contact with eyes, skin, and clothing.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

BOILING RANGE	: 279 - 340 F	VAPOR DENSITY	: Is heavier than air
ODOR	: Strong solvent	ODOR THRESHOLD	: N/D
APPEARANCE	: Clear thin liquid	EVAPORATION RATE	: Is faster than Butyl Acetate
SOLUBILITY IN H ₂ O	: Slight <1%		
FREEZE POINT	: N/D	SPECIFIC GRAVITY	: 0.9100
VAPOR PRESSURE	: N/D	pH @ 0.0 %	: N/D
PHYSICAL STATE	: Liquid	VISCOSITY	: N/D
COEFFICIENT OF WATER/OIL DISTRIBUTION: N/D			

(See Section 16 for abbreviation legend)

SECTION 10 - STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Sources of ignition. Long term exposure to elevated temperatures.

INCOMPATIBILITY: Avoid contact with oxidizing material.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

STABILITY: This product is stable under normal storage conditions.

SONOCONCRETE KURE-N-SEAL 30

Version 1.2

3/26/02

SECTION 11 - TOXICOLOGICAL PROPERTIES

PRODUCT DERMAL LD50: No Information PRODUCT ORAL LD50: No Information
 PRODUCT LC50: No Information

COMPONENT TOXICOLOGICAL INFORMATION:

----- CHEMICAL NAME -----	-- DERMAL LD50 --	--- ORAL LD50 ---	----- LC50 -----
xylene	>3.95 g/kg	4.3 g/kg	6700 ppm/4H
Naphtha-light aromatic	>4 ml/kg	4.7 g/kg	>3670 ppm/8H
1,2,4 Trimethyl Benzene	No Information	12.7 gm/kg	18 gm/m3/4H
cumene	12300 ul/kg	1400 mg/kg	No Information

SECTION 12 - ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: No Information.

SECTION 13 - DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Review all local, state, and federal regulations concerning health and pollution for appropriate disposal procedures.

SECTION 14 - TRANSPORTATION INFORMATION

DOT PROPER SHIPPING NAME: Not Regulated

DOT TECHNICAL NAME: N.A.

DOT HAZARD CLASS: N.A.

HAZARD SUBCLASS: N.A.

DOT UN/NA NUMBER: N.A.

PACKING GROUP: N.A.

RESP. GUIDE PAGE: N.A.

DOT PLACARD AT: N.A.

DOT CLASS NUMBER: 3

UN PROPER SHIPPING NAME: Paint

UN HAZARD CLASS: FLAMMABLE LIQUID

UN CLASS NUMBER: AIR 3

MARINE 3.3

HAZARD SUBCLASS: AIR N.A.

MARINE N.A.

SONOCONCRETE KURE-N-SEAL 30

Version 1.2

3/26/02

SECTION 14 - TRANSPORTATION INFORMATION

UN UN/NA NUMBER: UN1263 UN PACKING GROUP: AIR III MARINE III

UN PLACARD AT: 454 kg

SECTION 15 - REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS: AS FOLLOWS -

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200)

CERCLA - SARA HAZARD CATEGORY:

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

IMMEDIATE HEALTH HAZARD CHRONIC HEALTH HAZARD FIRE HAZARD

SARA SECTION 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

----- CHEMICAL NAME -----	CAS NUMBER	WT/WT % IS LESS THAN
xylene	1330-20-7	5.0 %
1,2,4 Trimethyl Benzene	95-63-6	25.0 %
cumene	98-82-8	5.0 %

TOXIC SUBSTANCES CONTROL ACT:

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

----- CHEMICAL NAME -----	CAS NUMBER
None known.	

U.S. STATE REGULATIONS: AS FOLLOWS -

CALIFORNIA PROPOSITION 65:

WARNING: The chemical(s) noted below and contained in this product, are known to the state of California to cause cancer, birth defects or other reproductive harm:

----- CHEMICAL NAME -----	CAS NUMBER
No chemicals known to the state of California to cause cancer, birth defects or other reproductive harm are known to exist in this product.	

SONOCONCRETE KURE-N-SEAL 30

Version 1.2

3/26/02

SECTION 15 - REGULATORY INFORMATION

INTERNATIONAL REGULATIONS: AS FOLLOWS -

CANADIAN WHMIS: This MSDS has been prepared in compliance with Controlled Product Regulations except for use of the 16 headings.

CANADIAN WHMIS CLASS: No information available.

SECTION 16 - OTHER INFORMATION

HMIS RATINGS - HEALTH: 2 FLAMMABILITY: 2 REACTIVITY: 0
PERSONAL PROTECTION: G

PREVIOUS MSDS REVISION DATE: 09/10/99

REASON FOR REVISION: Complete overview.

VOLATILE ORGANIC COMPOUNDS (VOCS): 5.39 lbs/gal, 646 grams/ltr

LEGEND: N.A. - Not Applicable, N.E. - Not Established,
N.D. - Not Determined

This information is furnished without warranty, representation, or license of any kind, except that this information is accurate to the best of ChemRex's knowledge, or is obtained from sources believed by ChemRex to be accurate. No warranty is expressed or implied regarding the accuracy of this information or the results to be obtained from its use thereof. ChemRex assumes no responsibility for injuries proximately caused by use of the Material if reasonable safety procedures are not followed as stipulated in this Data Sheet. Additionally, ChemRex assumes no responsibility for injuries proximately caused by abnormal use of the Material even if reasonable safety procedures are followed. Buyer assumes the risk in its use of the Material.

<END OF MSDS>

1000 CONSEAL

CONSEAL is a colorless, non-toxic, non-flammable, low viscosity, spray applied liquid formulation that provides a permanent internal moisture barrier for waterproofing and preserving new and old concrete.

2. Manufacturer

Waterproofing Engineering & Technologies
10709 Tube Drive 100
Fort Worth, Texas 76053

3. Product Description

CONSEAL 1000 provides a unique barrier for waterproofing concrete and dense cementitious masonry products.

Whereas most other waterproofing products develop only a surface coating, CONSEAL is designed to penetrate deeply and become an integral part of the concrete. CONSEAL is a water based, internal waterproofing system which contains the same inorganics present in concrete. A proprietary wetting agent composed of sixteen enzymes remarkably reduces the liquid's surface tension, which enables the CONSEAL to penetrate deeply into the small pore diameters. This filling of all the inter-connected pores and fissures stops liquid transmission by the formation of a gel within the pores and interstitial spaces within the first 72 hours after the CONSEAL application. This gel swells in the presence of moisture and prevents the passage of water and other liquids under hydrostatic pressure. When the hydrostatic load is removed, the gel shrinks sufficiently to allow the concrete to breathe.

BASIC USES:

CONSEAL preserves new or old concrete. CONSEAL hardens new concrete and retards dusting without altering the surface appearance, texture, or bonding characteristics. The occlusive seal formed by CONSEAL limits deterioration of concrete and dense cementitious masonry by resisting the penetration of acids, alkalis, oils and salts. CONSEAL is formulated to perform against below grade hydrostatic pressure and is also excellent as an on grade moisture barrier.

ADVANTAGES:

- hardens concrete, minimizing surface dusting, pitting, spalling and hairline cracking
- inhibits water seepage and saponification
- resists acid, alkali and salt and oil attack
- seals against seepage below grade (i.e. from hydrostatic head)
- stops capillary action

- aids in curing new concrete uniformly, resisting spot drying and hairline shrinkage cracking – can be applied immediately after finishing
- ejects grease and oils which have penetrated concrete. CONSEAL 1010 emulsifies such materials and floats them to the surface – resists such further penetration
- prepares concrete surfaces for subsequent applications of paint, stains or adhesives specifically formulated for use on concrete surfaces – as both concrete and CONSEAL are essentially breathable materials, a test area should be tried before proceeding with any large areas of seamless materials – moisture testing is often used in this determination
- promotes greater paint durability by helping to resist peeling, cracking or crumbling – increases bonding strength of latex and poly-vinyl paints

LIMITATIONS:

- CONSEAL is formulated primarily for concrete and other substrates containing calcium carbonate and lime and does not effectively seal asphalt, metal or wood, or clay products
- CONSEAL will not penetrate acrylic or nonporous rubber based paints
- CONSEAL must be applied at full strength to attain the desired results

COMPOSITION:

CONSEAL is a non-toxic, (water based) blend of inorganics which react with water and natural by-products in the formation of concrete to form an internal system of suspended solids. These suspended solids extend throughout the concrete filling all the capillaries, thereby creating a permanent moisture barrier. CONSEAL contains no organic materials or inorganic heavy metals. CONSEAL is neither flammable or explosive and does not emit any harmful fumes.

TYPES:

CONSEAL 1000 for normal applications

CONSEAL 1010 for applications on concrete surfaces permeated with oil, grease or acid

SIZES:

5 Gallon Plastic Pails

55 Gallon Steel or Plastic Drums

4 Gallons per Case

4. TECHNICAL DATA

Physical Properties

Appearance	Colorless
Odor	Negligible
Toxicity	None
Flash Point	None
Resistivity	50 Ohms
pH	12.1 pH Scale Units
Total Solids	10.1 %
Specific Gravity	1.075

Compressive Strength: ASTM C-109
4,783 psi in 7 days; 5,208 in 28 days. An increase of 18 % over untreated control samples.

Absorption: ASTM C-67

Six specimens of concrete, 3 treated with CONSEAL and 3 untreated were tested for absorbency after 24 hour submersion in water and after 5 hours in boiling water. Water absorption of concrete is reduced by 25 % when treated with CONSEAL.

Suction: ASTM C-67, Section 9

This test provides an initial rate of absorption, during the first minute, of concrete in water. The initial rate of absorption of concrete (suction) is decreased about 35 % by treatment of CONSEAL.

Stain Resistance: ORF Method

Treated concrete is noticeably more resistant to staining and is more easily cleaned than untreated concrete.

Dusting Resistance: ORF Method

Concrete treated with CONSEAL is twice as resistant to dusting as compared to untreated control samples.

Water Loss: ASTM C-156

Amount of water lost: 0.0735 gm/cm after 72 hours. Conforms to ASTM C-309, Type I clear or translucent liquid membrane forming compounds, or, Type I-D, clear or translucent with fugitive dye when specified on order.

Freeze Thaw Resistance:

CONSEAL imparts an improved resistance to freeze-thaw damage under test conditions.

Resistance to Salt Attack:

CONSEAL application to concrete imparts some resistance to salt attack (5% NaCl solution) under freeze-thaw conditions.

Resistance to Chemicals:

Concrete treated with CONSEAL develops a high resistance to chemical attack. This resistance is imparted by the highly chemical resistant inorganic solids which permeate the concrete and form a protective coating around the individual cement particles.

Concrete treated with CONSEAL is highly resistant to oils, grease, petroleum and non-petroleum based hydrocarbon solvents, caustic alkalis and most of the organic and inorganic acids.

Approvals:

USDA - chemically acceptable as a coating for application to structural surfaces where there is a possibility of incidental food contact in establishments operating under the Federal Meat and Poultry Products Inspection Program.

CONSEAL has been approved for use in all animal holding and shelter facilities by The Regulatory Enforcement and Animal Care (REAC) division of the U.S. Dept. of Agriculture.

5. INSTALLATION

Preparatory Work:

No preparatory work is generally required. However, if the concrete surface is coated with heavy wax, thick grease, recently applied surface sealer, rubber or acrylic paint or other impervious material, remove such materials so that the CONSEAL can reach the surface of the concrete where it will be allowed to penetrate into the concrete. Accidental over application will not discolor the surface.

Method of Application:

1. Dampen surface to be treated (do not saturate) using a fine mist water spray.
2. Saturate the surface thoroughly with CONSEAL at an approximate rate of 100 – 150 square feet per gallon, depending upon porosity of the concrete.

Low pressure spray equipment, such as a hand pumped garden type sprayer works well for medium sized areas. For large areas, airless spray equipment is very efficient. Small areas can be effectively treated using a spray bottle.

Brushes or rollers are not recommended because of the low viscosity of the CONSEAL.

Do not allow the CONSEAL to pond or puddle, as a white residue will likely form on the surface of the concrete. Move the excess material from the low spots on the floor to the high spots with a squeegee, mop or broom. Any remaining material should be picked up with a wet vac or mop.

The time for additional applications can be judged by observing the time it takes for the CONSEAL to soak into the concrete. If the CONSEAL soaks in quickly, generally less than fifteen minutes after application, additional material should be applied.

3. IMPORTANT: Approximately 3 hours after application of the CONSEAL, water dampen the treated surface using a fine water spray mist. CAUTION: Do not flush with water as some of the CONSEAL still on the surface may be washed away by this action.
4. 24 hours after application, flush or mop the surface thoroughly with water. Surface should be kept continually damp for 48 hours
5. Painted surfaces: CONSEAL will penetrate through most oil and water based paints. Generally, it will not effect the

existing color; however, a small area should first be tested before applying CONSEAL to any expansive areas.

6. CONSEAL will not penetrate latex, polyvinyl or acrylic based paints.

Unpainted surfaces: Generally, no surface preparation is necessary. Before painting over CONSEAL treated areas, the surfaces should be flushed with clear water until the surface no longer exhibits leaching of alkali or foreign matter.

7. For surfaces such as basement and outside walls, follow standard procedures as described above. CONSEAL will seal against hydrostatic pressure; however, flowing water must be stopped before application.
8. Oil, grease or acid conditions: Preliminary cleaning of the surface is necessary before CONSEAL is applied. Heavy deposits may require scraping, followed by thorough cleaning with a commercial degreaser. After the surface has been cleaned, apply CONSEAL 1010. Flush the area with cold water when the CONSEAL 1010 has penetrated and the area feels tacky or slippery. A floor brush or squeegee will help float oils and grease off when flushing. Deep stains will not be removed entirely at the time of treatment, but will disappear progressively as the CONSEAL penetrates, emulsifies and ejects the oil or grease.
9. Curing new concrete: Apply CONSEAL to the surface as soon as the concrete finishing operations have been completed, or when the forms have been removed, saturating the surface thoroughly. Concrete will cure slowly, producing a hardened waterproof surface. CONSEAL is excellent in hot or windy weather, since it promotes uniform curing, increases density, resists hairline shrinkage cracking and stops surface dusting.

Precautions:

CONSEAL should not be allowed to remain on glass or aluminum

In the event of contact, wipe off immediately with a wet cloth or sponge.

CONSEAL should not be applied to glazed floor or wall tile, or glazed or hard fired brick where the glaze will prevent the penetration of the material. However, CONSEAL may be applied over these materials if the intent is to seal the grout joints. In such cases, after the CONSEAL has sufficiently soaked into the grout, remove all excess material from the surface with a wet vac, squeegee or mop. This will greatly minimize the possibility of a white deposit or film from forming on the tile or brick. When in doubt, apply CONSEAL to a small test area.

CONSEAL is not recommended for use on porous brick, pavers or tile as there is not sufficient alkali (lime) in these materials for the CONSEAL to react with. In most cases, white discoloration will occur on such surfaces.

CONSEAL should not be applied to masonry structures having a mortar or grout containing a latex binder.

CONSEAL should not be applied or stored at freezing temperatures. 45 degree minimum surface temperature.

If freezing occurs during storage, agitate the thawed material thoroughly to assure uniform solution.

During outside applications, care should be taken to protect vegetation and adjacent areas from direct spray or overspray.

6. AVAILABILITY

CONSEAL is available through local distributors and dealers, or may be ordered directly from the manufacturer if a supplier is not available in your area.

7. GUARANTEE

The information and data contained herein are believed to be accurate and reliable; however, it is the user's responsibility to determine suitability of use. Since Waterproofing Engineering & Technologies cannot know all of the uses to which its products may be put, or the conditions of use, it makes no warranty concerning the fitness or suitability of its products for any particular purpose.

The user should thoroughly test any proposed use of our products and independently conclude satisfactory performance for the given application. Likewise, if the manner in which our products are used requires agency or government approval, user must obtain it.

Waterproofing Engineering & Technologies warrants only that its products will meet its current specifications. There is no warrant of merchantability of fitness for use, nor any other expressed or implied warranties. The user's exclusive remedy and the sole liability of Waterproofing Engineering & Technologies is limited to refund of the purchase price or replacement of any product shown to be otherwise than as warranted. Waterproofing Engineering & Technologies will not be liable for consequential or incidental damages of any kind. Suggestions of previous users should not be taken as inducements to infringe on any patents.

8. TECHNICAL SERVICES

Waterproofing Engineering & Technologies maintains a staff of technical consultants, available to assist with any application. Our research and Development Engineering Department is continually working to improve existing products and methods as well as developing new products.

9. FILING SYSTEMS

Waterproofing Engineering & Technologies
10709 Tube Drive 100
Hurst, Texas 76053

"CONSEAL" and "WET" are trademarks of Waterproofing Engineering & Technologies. Copyright 1989. All rights reserved. Printed in U.S.A.



RadonSeal Standard & Plus

MATERIAL SAFETY DATA SHEET

SECTION I - PRODUCT INFORMATION

PRODUCT IDENTIFIER: **RadonSeal Penetrating Concrete Sealer & Preservative** - "Standard" or "Plus" grades
 SUPPLIER: Novion Inc.
 ADDRESS: 18 L'Hermitage Drive
 Shelton, CT 06484
 PRODUCT USE: Concrete Sealer, Concrete Block Sealer, Mortar Sealer, Radon Blocker, Concrete Waterproofing, Vapor Barrier, Concrete Densifier
 EMERGENCY TELEPHONE NUMBER: 1-203-225-0366

SECTION II – HAZARDOUS INGREDIENTS

Hazardous Ingredients	%	CAS/PIN	LD50 (Species/Route)	LC50 (Species)
Silicates, Bonding catalysts, Gelling agents, Wetting agents, Defoaming agents, Stabilizing agents	18–34	1344-09-8	(rat) 2000-3000 mg/kg	N/A

SECTION III – PHYSICAL DATA

PHYSICAL STATE: Liquid
 APPEARANCE AND ODOR: Colorless/ turbid liquid No/Very low Odor
 SOLUBILITY IN WATER: Yes

FREEZING POINT: 30 °F BOILING POINT: 214 °F @ 760 mm Hg pH Factor: 7.9
 COEFF. WATER/OIL: NAV EVAPORATION RATE: N/A % VOLATILES: 90
 VAPOR DENSITY: N/A VAPOR PRESSURE: N/A % VOCs: 0

SECTION IV – FIRE OR EXPLOSION HAZARD

CONDITIONS OF FLAMMABILITY: None
 HAZARDOUS COMBUSTION PRODUCTS: None
 AUTOIGNITION TEMPERATURE: N/A MINIMUM IGNITION ENERGY: N/A
 FLAMMABLE LIMITS: (LOWER) N/A (UPPER) N/A FIRE POINT: N/A
 FLASH POINT & METHOD: N/A SENSITIVITY TO MECHANICAL IMPACT: N/A
 SENSITIVITY TO STATIC DISCHARGE: N/A

SPECIAL PROCEDURES: None

MEANS OF EXTINCTION: Non-combustible Water spray or CO2, or foam may be used in areas where this product is stored.

KEY:
 NAV = Not Available
 N/A = Not Applicable



RadonSeal Standard & Plus

MATERIAL SAFETY DATA SHEET

Page 2 of 2

SECTION V – REACTIVITY DATA

CONDITIONS OF REACTIVITY:	Product is stable.
CHEMICAL INCOMPATIBILITY:	Gels when mixed with acids.
CONDITIONS OF INSTABILITY:	Under normal conditions, product is stable.
HAZARDOUS DECOMPOSITION PRODUCTS:	None

SECTION VI – TOXICOLOGICAL PROPERTIES

ROUTES OF ENTRY:	Skin contact, eye contact, inhalation, or ingestion.
EXPOSURE LIMITS:	PEL - 2 mg/m ³ ceiling as NaOH TLV - 2 mg/m ³ ceiling as NaOH Na ₂ O-SiO ₂
EFFECTS OF ACUTE EXPOSURE:	Irritating to eyes, skin, mucous membranes of the respiratory tract mouth, throat or esophagus.
EFFECTS OF CHRONIC EXPOSURE:	No known chronic effects.
MUTAGENICITY:	None
CARCINOGENICITY:	None
IRRITANCY:	Skin, eyes, respiratory and digestive tracts
TERATOGENICITY:	None
REPRODUCTIVE TOXICITY:	None
SENSITIZATION:	None

SECTION VII – PREVENTATIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT:	Use NIOSH/MSHA approved respirator, particularly if spraying overhead. Use safety goggles for eye protection. Rubber gloves and standard work clothing and shoes.
ENGINEERING CONTROLS:	Where mist or spray may be generated, use adequate local exhaust ventilation.
STORAGE REQUIREMENTS:	Store between 40 °F and 110 °F.
HANDLING PROCEDURES/EQUIPMENT:	Use normal handling procedures for liquid products.
LEAK/SPILL PROCEDURES:	Use absorbent materials or mop and flush with water.
WASTE DISPOSAL:	Use absorbent material and dispose of according to local or federal laws.

SECTION VIII – FIRST AID MEASURES

INHALATION:	Remove to fresh air. If breathing becomes difficult, administer oxygen.
EYES:	Flush with water for fifteen minutes; hold eyelids open.
SKIN:	Wash with cool water for fifteen minutes.
OTHER:	Swallowed: Do not induce vomiting. Drink water or milk. If conditions persist, get medical attention.

SECTION IX – PREPARATION INFORMATION

PREPARED BY: Novion Inc.
TELEPHONE NUMBER: 1-800-472-0603 (203) 225-0366

DATE: revision November 12, 2001

KEY

NAV = Not Available
N/A = Not Applicable

MATERIAL SAFETY DATA SHEET

Page 1

SECTION I - PRODUCT INFORMATION:

PRODUCT IDENTIFIER: Radon Loc, Radon Loc Extra
PRODUCED FOR: Endur-O-Seal, North East
ADDRESS: 516 Route 12A
 Surry, NH 03431
PRODUCT USE: Concrete Sealer, Concrete Block Sealer,
 Radon Mitigation, Vapor Barrier, Mortar Sealer,
 Concrete Densifier

DISTRIBUTED BY:
Endur-O-Seal, North East
516 Route 12A
Surry, NH 03431
1-603-358-0075

EMERGENCY TELEPHONE NUMBER: 1-866-367-0075 (Toll Free) or 1-800-259-8855

SECTION II - HAZARDOUS INGREDIENTS:

Hazardous Ingredients -0-	%	CAS/PIN	LD ₅₀ (Species/Route)	LC ₅₀ (Species)
Silicates/Bonding catalysts	10-20	1344-09-8	(rat) 2000-3000 mg/kg	N/A
Penetrants/Gelling agents	1-5	Proprietary Mixture		

SECTION III - PHYSICAL DATA:

PHYSICAL STATE: Liquid
APPEARANCE AND ODOR: Colorless/ turbid liquid No Odor
SOLUBILITY IN WATER: Yes

FREEZING POINT: 30° F. BOILING POINT: 214° F. @ 760 mm Hg pH: 7.0/7.9 cured
COEFF. WATER/OIL: NAV EVAPORATION RATE: N/A %VOLATILES: 90
VAPOR DENSITY: N/A VAPOR PRESSURE: N/A

SECTION IV - FIRE OR EXPLOSION HAZARD:

CONDITIONS OF FLAMMABILITY: None
HAZARDOUS COMBUSTION PRODUCTS: None
AUTOIGNITION TEMPERATURE: N/A MINIMUM IGNITION ENERGY: N/A
FLAMMABLE LIMITS: (LOWER) N/A (UPPER) N/A FIRE POINT: N/A
FLASH POINT & METHOD: N/A SENSITIVITY TO MECHANICAL IMPACT: N/A
SENSITIVITY TO STATIC DISCHARGE: N/A

SPECIAL PROCEDURES: None

MEANS OF EXTINCTION: Non-combustible Water spray or CO₂, or foam may be used
In areas where this product is stored.

KEY:

NAV = Not Available
N/A = Not Applicable

SECTION V - REACTIVITY DATA:

CONDITIONS OF REACTIVITY: Product is stable.
 CHEMICAL INCOMPATIBILITY: Gels when mixed with acids.
 CONDITIONS OF INSTABILITY: Under normal conditions, product is stable.
 HAZARDOUS DECOMPOSITION PRODUCTS: None

SECTION VI - TOXICOLOGICAL PROPERTIES:

ROUTES OF ENTRY: Skin contact, eye contact, inhalation, or ingestion.
 EXPOSURE LIMITS: PEL - 2 mg/m³ ceiling as NaOH * TLV - 2 mg/m³ ceiling as NaOH Na₂O-SiO₂
 EFFECTS OF ACUTE EXPOSURE: Irritating to eyes, skin, mucous membranes of the respiratory tract, mouth, throat or esophagus.
 EFFECTS OF CHRONIC EXPOSURE: No known chronic effects.
 MUTAGENICITY: None
 CARCINOGENICITY: None
 IRRITANCY: Skin, eyes, respiratory and digestive tracts.
 TERATOGENICITY: None
 REPRODUCTIVE TOXICITY: None
 SENSITIZATION: None

SECTION VII - PREVENTIVE MEASURES:

PERSONAL PROTECTIVE EQUIPMENT: Use NIOSH/MSHA approved respirator if spraying as standard safety operating practice. Use safety goggles for eye protection. Rubber gloves and standard work clothing and shoes.
 ENGINEERING CONTROLS: Where mist or spray may be generated, use adequate local exhaust ventilation.
 STORAGE REQUIREMENTS: Store between 40° F and 110° F.
 HANDLING PROCEDURES/EQUIPMENT: Use normal handling procedures for liquid products.
 LEAK/SPILL PROCEDURES: Use absorbent materials or mop and flush with water.
 WASTE DISPOSAL: Use absorbent material and dispose of according to local or federal laws.

SECTION VIII - FIRST AID MEASURES:

INHALATION: Remove to fresh air. If breathing becomes difficult, administer oxygen.
 EYES: Flush with water for fifteen minutes; hold eyelids open.
 SKIN: Wash with cool water for fifteen minutes.
 OTHER: Swallowed; Do not induce vomiting. Drink water or milk. If conditions persist, get medical attention.

SECTION IX – TRANSPORT INFORMATION:

DOT SHIPPING NAME: AQUEOUS SILICATE DISPERSION-SEALER
 DOT HAZARD CLASS: CLASS 55
 PLACARDS: N/A

SECTION X - PREPARATION INFORMATION:

PREPARED BY: ENDUR-O-SEAL, NORTH EAST
 TELEPHONE NUMBER: 1-866-367-0075 (Toll Free) DATE OF PREPARATION: Revision date: 01/15/01

KEY

NAV = Not Available N/A = Not Applicable