

SEAL-A-CRETE PLUS

DEGREASER and MOISTURE BARRIER

**The ultimate for deep cleaning, waterproofing
and preserving new or old concrete**

ENVIRONMENT AND USER FRIENDLY

In addition to the constituents found in SEAL-A-CRETE, the SEAL-A-CRETE contains enzymes, surfactants, detergents and retarders specifically formulated to enable the material to penetrate deeply into the stained concrete and emulsify and float the contaminants to the surface.



This bottom half of this area was first cleaned with Degreaser and then sealed with SEAL-A-CRETE PLUS

- **FORMS AN OCCLUSIVE SEAL TO RESIST FURTHER SUCH PENETRATIONS**
- **TREATED CONCRETE RESISTS ACID, ALKALI AND SALT ATTACK**
- **MINIMIZES SURFACE DUSTING, PITTING, SPALLING AND HAIRLINE CRACKING**
- **STOPS CAPILLARY ACTION OF THE CONCRETE**
- **NON-TOXIC AND NONFLAMMABLE**
- **INCREASES BONDING STRENGTH AND DURABILITY OF SUBSEQUENT APPLICATION OF POLY-VINYL & LATEX BASED PAINTS AND OTHER COATINGS AND FLOORING ADHESIVES**
- **BEFORE APPLYING SEAL-A-CRETE PLUS TO HEAVILY SOILED CONCRETE, WE RECOMMEND THAT SUCH DEPOSITS BE REMOVED WITH A DEGREASER. THIS WILL ENABLE THE SEAL-A-CRETE PLUS TO GET TO THE CONCRETE SURFACE SO IT CAN PENETRATE.**
- **DO NOT EXPECT OVERNIGHT RESULTS. IT PROBABLY TOOK A LONG TIME FOR THE STAIN TO GET THERE IN THE FIRST PLACE, SO IT WILL TAKE SOME TIME FOR THE SEAL-A-CRETE PLUS TO GET IT OUT.**

SEAL-A-CRETE PLUS

SEAL-A-CRETE PLUS is a colorless, non-toxic, nonflammable, low viscosity, spray applied liquid formulation that penetrates deeply into concrete to remove grease and oil stains and other contaminants and provides a permanent internal moisture barrier for waterproofing and preserving new and old concrete.

Product Description

SEAL-A-CRETE PLUS contains surfactants, detergents, emulsifiers and retarders that emulsify grease, oil and other stains commonly found in concrete. SEAL-A-CRETE PLUS dissolves such contaminants and pushes them to the surface where they can be picked up or rinsed away. It also provides a unique barrier for waterproofing concrete and dense cementitious masonry products. Whereas most other waterproofing products develop only a surface coating, SEAL-A-CRETE is designed to penetrate deeply where it becomes an integral part of the concrete. SEAL-A-CRETE 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 SEAL-A-CRETE to penetrate deeply into the small pore diameters and hairline cracks. 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 SEAL-A-CRETE application. This gel swells in the presence of moisture and prevents the passage of water and other liquids under hydrostatic pressure.

BASIC USES:

SEAL-A-CRETE PLUS cleans and preserves new or old concrete. SEAL-A-CRETE hardens new concrete and retards dusting without altering the surface appearance, texture, or bonding characteristics. The occlusive seal formed by SEAL-A-CRETE limits deterioration of concrete and dense cementitious masonry by resisting the penetration of acids, alkalis, oils and salts. SEAL-A-CRETE 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

- resists acid, alkali and salt and oil attack

- seals against seepage below grade (i.e. from hydrostatic pressure)

- 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. SEAL-A-CRETE 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 – 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:

- SEAL-A-CRETE is formulated solely for concrete and does not effectively seal asphalt, metal or wood, brick or clay products.

- SEAL-A-CRETE will not penetrate acrylic or nonporous rubber based paints

- SEAL-A-CRETE must be applied at full strength to attain the desired results

COMPOSITION:

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

TYPES:

SEAL-A-CRETE for normal applications
SEAL-A-CRETE PLUS for applications on concrete surfaces permeated with oil, grease or acid
SEAL-A-CRETE PRIMER required to fortify concrete block prior to applying SEAL-A-CRETE

SIZES:

20 litre drums

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:

SEAL-A-CRETE significantly increases the compressive strength of concrete because the silicate constituent of the material reacts with the calcium hydroxide (present in all concrete) to form calcium silicate hydrate.

Stain Resistance:

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

Dusting Resistance:

Concrete treated with SEAL-A-CRETE is twice as resistant to dusting as compared to untreated control samples.

Freeze Thaw Resistance:

SEAL-A-CRETE imparts an improved resistance to freezethaw damage under test conditions.

Resistance to Salt Attack:

SEAL-A-CRETE application to concrete imparts resistance

to salt attack (5% NaCl solution) under freeze-thaw conditions.

Resistance to Chemicals:

Concrete treated with SEAL-A-CRETE 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 SEAL-A-CRETE 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.

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

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 SEAL-A-CRETE 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 SEAL-A-CRETE at an approximate rate of 3.5m² & 5m² per litre, 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 SEAL-A-CRETE. Do not allow the SEAL-A-CRETE 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 SEAL-A-CRETE to soak into the concrete. If the SEAL-A-CRETE soaks in quickly, generally less than fifteen minutes after application, additional material should be applied.

IMPORTANT:

Indoors: Approximately 2 to 3 hours after application of the SEAL-A-CRETE, water dampen the treated surface using a fine water spray mist.

Outdoors: To prevent flash evaporation of the SEAL-A-CRETE from the effects of wind or direct sun exposure, keep the surface damp for 24 hours.

CAUTION: Do not flush with water as some of the SEAL-A-CRETE still on the surface may be washed away by this action.

4. 24 hours after application, flush or mop the surface thoroughly with water to flush off any foreign material. Repeated flushings may be required as the SEAL-A-CRETE brings contaminants to the surface. Surface should be kept continually damp for 48 hours

5. SEAL-A-CRETE will not penetrate latex, polyvinyl or acrylic based paints. Unpainted surfaces: Generally, no surface preparation is necessary. Before painting over SEAL-A-CRETE treated areas, the surfaces should be flushed with clear water until the surface no longer exhibits leaching of alkali or foreign matter.

6. For surfaces such as basement and outside walls, follow standard procedures as described above. SEAL-A-CRETE will seal against hydrostatic pressure; however, flowing water must be stopped before application.

7. Oil, grease or acid conditions: Preliminary cleaning of the surface is necessary before SEAL-A-CRETE is applied. Heavy deposits may require scraping, followed by thorough cleaning with a commercial degreaser. After the surface has been cleaned, apply SEAL-A-CRETE PLUS. Flush the area with cold water when the SEAL-A-CRETE PLUS 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 SEAL-A-CRETE penetrates, emulsifies and ejects the oil or grease.

8. Curing new concrete: Apply SEAL-A-CRETE 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. SEAL-A-CRETE is excellent in hot or windy weather, since it promotes uniform curing, increases density, resists hairline shrinkage cracking and stops surface dusting.

Precautions:

SEAL-A-CRETE should not be allowed to remain on glass or aluminum. In the event of contact, wipe off immediately with a wet cloth or sponge. SEAL-A-CRETE 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, SEAL-A-CRETE may be applied over these materials if the intent is to seal the grout joints. In such cases, after the SEAL-A-CRETE 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 SEAL-A-CRETE to a small test area. SEAL-A-CRETE is not recommended for use on porous brick, pavers or tile as there is not sufficient alkali (lime) in these materials for the SEAL-A-CRETE to react with. In most cases, white discoloration will occur on such surfaces. SEAL-A-CRETE should not be applied to masonry structures having a mortar or grout containing a latex binder. SEAL-A-CRETE should not be applied or stored at freezing temperatures. 5 degree minimum surface temperature is recommended. 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.

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