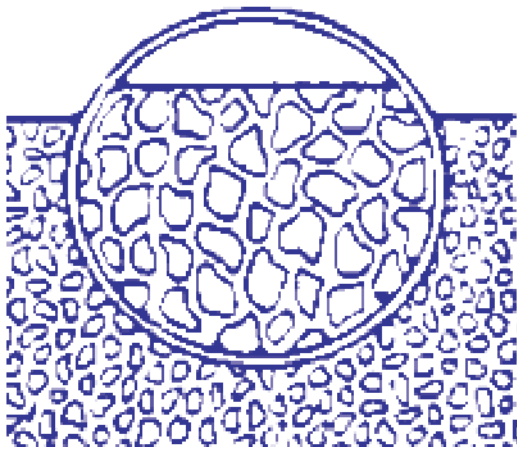


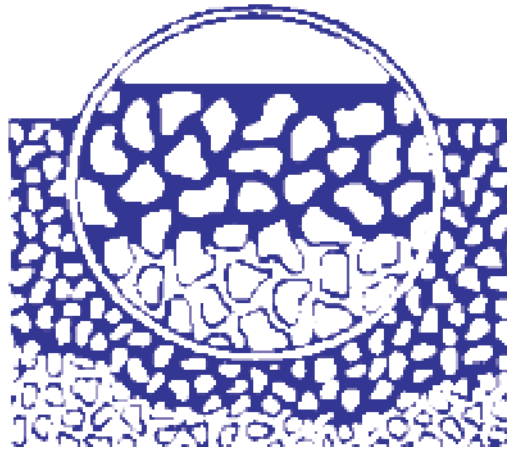
Alkali Activated Chemical Moisture Barrier

SEAL-A-CRETE

The ultimate for waterproofing, hardening,
dustproofing and preserving new or old concrete
STOPS MOULD & MILDEW – STOPS URINE INGRESS
ENVIRONMENT AND USER FRIENDLY



Spaces between particles leave untreated concrete subject to penetration by moisture, oils, acids, etc.



SEAL-A-CRETE penetrates into the concrete where it reacts with free lime and alkali to fill the voids and bond the particles into a solid mass, creating a permanent seal.

CURING

SEAL-A-CRETE is extremely effective in warm weather, preventing temperature cracking when applied right after troweling and kept saturated for 30 minutes.

BONDING

SEAL-A-CRETE eliminates dusting and flaking and prepares the treated surface for paints, caulking compounds, adhesives and floor coverings, and increases the bond and life of these materials. It is coatable and compatible with any type of covering.

HARDENING

SEAL-A-CRETE makes concrete up to 18 percent harder in 28 days. Concrete continues to harden after that, but at a slower rate.

SEALING

SEAL-A-CRETE seals concrete and other cement based materials into a mass that is essentially solid, rather than porous. Its penetrating quality provides deep sealing that provides effective sealing for the life of the concrete.

WATERPROOFING

SEAL-A-CRETE becomes an integral permanent part of the concrete by reacting with the free lime and alkali found in all concrete, thus completely waterproofing and substantially strengthening the structure of the concrete.

THERMAL MASS

SEAL-A-CRETE increases the thermal mass of concrete by as much as 40 %.

SEAL-A-CRETE

SEAL-A-CRETE 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.

PRODUCT DESCRIPTION

SEAL-A-CRETE provides a unique barrier for water proofing concrete and dense cementitious masonry products. Whereas most other waterproofing products develop only a surface coating, SEAL-A-CRETE is designed to penetrate deeply (up to 8 inches) 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 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
- 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. 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 primarily for concrete and other substrates containing calcium carbonate and lime and does not effectively seal asphalt, metal or wood, 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 or cinder block prior to applying the 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.

Absorption:

The chemical reaction between SEAL-A-CRETE and the free lime and alkali within the concrete seals the small pores and hairline cracks to impede the absorption of moisture.

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 significantly more 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 approved 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.

For oil, grease or acid conditions, use SEAL-A-CRETE PLUS

Method of Application:

Dampen surface to be treated (do not saturate) using a fine mist water spray.

Saturate the surface thoroughly with SEAL-A-CRETE at an approximate rate of 3.5m² to 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.

If necessary, 24 hours after application, flush or mop the surface thoroughly with water to flush off any foreign material that may have been brought to the surface. Repeated flushings may be required as the SEAL-A-CRETE brings contaminants to the surface.

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.

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.

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

SEAL-A-CRETE will stiffen leather gloves or footwear.

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 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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