

**TECHNICAL DATA & PRODUCT DESCRIPTION****SECTION 1: PRODUCT NAME****4EVERCRETE****SECTION 2: PRODUCED FOR**

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**SECTION 3: PRODUCT DESCRIPTION**

**4EVERCRETE** is a cloudy white (dries clear) odorless, environmentally neutral, zero VOC / VOS penetrant in a colloidal liquid base.

**SECTION 4: BASIC USE**

When applied to already-set Portland cement concrete, **4EVERCRETE** integrally seals, waterproofs, densifies, and preserves attributes beneficial to concrete of any age, at any point during its useful lifespan. **4EVERCRETE** provides concrete an effective chloride ion barrier preserving its imbedded steel while removing potential for hostile contaminant ingress and significantly reducing vapor transmission rate effectively also preserving treated concrete's integrity. A **4EVERCRETE** treatment further increases surface abrasion resistance, and surface acid / chemical damage resistance. As **4EVERCRETE** penetrates extraordinarily deep into concrete, it prolifically reacts with interior ingredients, in example, free alkali or unused calcium hydroxide residue, and etc. These reactions prolifically convert **4EVERCRETE's** unusually low solids colloidal liquid to a 100% solids specially-formulated very insoluble precipitate, instantly providing additional density by becoming an integral part of the concrete, occupying its accessible porosity and other tiny voids, forming a breathable barrier which begins in concrete's transitional porosity, located beneath its large surface porosity and its small microporosity, and deeper. The uniquely-induced barrier generates no heat during its liquid to solids conversion, nor expansion pressures at any time. The internally-generated pollutant barrier remains resilient and consists of pore sizes that are much smaller than concrete micropores, significantly

diminishing void percentages and permeability, while allowing concrete to retain the ability to breathe, expand, and contract as it needs to. The internal barrier, complete with its extremely small porosity, greatly reduces or eliminates the transmission of PCBs and gases such as radon and methane. **4EVERCRETE** halts/greatly retards, internal existing corrosive activity, removing electrolyte availability, as it supplements, densifies, waterproofs, strengthens, and internally detoxifies concrete without deleterious effect to external appearance or physical characteristics. **4EVERCRETE** treatment will not impair concrete's surface traction and will further enhance its surface bonding ability. Areas that are to be treated need only be closed during treatment, and may be reopened immediately after treating. However, where a surface coating is planned, wait at least 8 hours, following a **4EVERCRETE** treatment (not necessary if surface was blasted), then flush with water, removing purged salts, particles, sediments, and etc., if any. Surface may then be prepared to the coating manufacturer specifications. **4EVERCRETE** is excellent as a primer application for surface treatments. **4EVERCRETE** addresses reasons for potential early coating failures such as alkaline capillary moisture accumulation, saponification, laitance effect, etc. Since **4EVERCRETE** is applied to old or new concrete without affecting surface quality, it may be used for the enhancement of all concrete installations, whether traffic bearing or not, such as auto traffic pavements, bridge decks, parking garage decks, airport pavements, hydro dams, pavers, sidewalks, driveways, and parking lots. **4EVERCRETE** stops leakage through concrete even while occurring. For example, water storage reservoirs, water treatment tanks, or below grade concrete, and etc., with or without hydrostatic pressure. **4EVERCRETE** will travel against water flow, when applied to the negative side, permanently arresting the flow of water.

**AS A CURE METHOD:** **4EVERCRETE** is excellent as an alternative concrete curing method, providing a cure equal to, or better than, water curing. **4EVERCRETE** as a cure method provides concrete the usual benefits of a curing agent, plus, **4EVERCRETE** provides special ingredients to the yet-available capillary mix water, waiting to participate in hydration reaction rates and processes, in the plastic or

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semi-plastic mix, reciprocating acceleration of hydration's reaction rates and processes, in turn generating increased volumes of a cement paste/hydration product, in a significantly shorter period of time, utilizing all of the remaining capillary water and leaving none to later evaporate and leave voids within the concrete. As a result of utilizing all remaining capillary mix water, the concrete's capillary voids become more segmented and smaller than usual. **4EVERCRETE** provides concrete a superior cure imparting extraordinary strength, surface hardness and impermeability, providing greatly-improved durability. The **4EVERCRETE** cure method provides concrete an especially - formulated permanent subsurface precipitate barrier containing pore sizes smaller than concrete's micropores, even further diminishing porosity/permeability effectively forcing gases such as radon to seek other avenues of escape, instead of passing through the concrete. The **4EVERCRETE** cure method leaves no surface residue to interfere with surface bonding. This is important when striping or applying a topical coating. Utilizing **4EVERCRETE** as an alternative cure method produces concrete with significantly better waterproofing, abrasion resistance, freeze damage resistance, dust resistance, and acid/ chemical resistance.

### SECTION 5: INSTALLATION SUGGESTIONS

#### On Already-Set Concrete:

*Note: In hot climates, mist-wet the surface with water and remove any puddles prior to application.*

Apply **4EVERCRETE** using a medium to high-pressure airless spray unit, complete with fan spray nozzle. Holding spray tip 6 inches from surface, apply **4EVERCRETE** at minimum rate of 150 square feet per gallon with an overlapping spray pattern of 20-30%. Begin application at the lowest elevation. For example, walls and slopes should be applied side to side, from the bottom up.

#### As An Alternative Cure Method:

Apply with a low-pressure non-atomizing, spray apparatus such as a pump-tank sprayer or mechanical cure slurry pump, or alternatively

by flooding-on. **4EVERCRETE** is ideally applied to the newly-poured concrete surface as soon as is practical following its surface finishing phase. Should conditions require the surface to be walked on, for application, concrete should be allowed the time to adequately harden, so as not to imprint or mar its surface during application. Recommended minimum coverage rate as a cure method is 125 square feet per gallon.

**Limitations:** If **4EVERCRETE** comes in contact with glass, it should be flushed with water and not be allowed to dry, since glass may etch. **4EVERCRETE** will dull the shine on shiny aluminum, however, aluminum's integrity will not be effected.

**For further information regarding proper installation guidelines, please refer to our 4EVERCRETE Installation Guide & Specification on our website.**

### SECTION 6: PRECAUTIONS

1. Any coatings that may restrict access to the concrete's interior must be chemically or mechanically removed for **4EVERCRETE** to penetrate.
2. Protect areas not intended for coverage.
3. **4EVERCRETE** may etch glass or dull shiny aluminum and can be difficult to remove from other surfaces once it dries.
4. Do not apply on frozen substrate or when temperature is near freezing.
5. **4EVERCRETE**'s spray mist is not hazardous to breathe. However, we do recommend the use of a face mask during application. Refer to MSDS.
6. For more information read Material Safety Data Sheet.

### SECTION 7: TECHNICAL DATA

**Physical:** Liquid

**Color:** Cloudy white (dries clear)

**Odor:** None

**Specific Gravity:** 1.10

**pH:** +/- 11.5

**Flammability:** None

**Toxicity:** None

**VOC / VOS Content:** none

**Surface Bond Quality:** Excellent

**Paintability:** Excellent

**Clean-up solvent:** Water

**Environmental Impact:** None / Neutral

**R-Factor Increase:** Up to 20 percent

**Chloride Screenability:** Excellent

**User Status:** Friendly

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### **4EVERCRETE**

#### **Advantages:**

- Permanently Integrally Waterproofs Concrete
- Provides Internal Humidity Stability
- Further Restricts Vapor Transmission
- Preserves Matrix, and Overall Integrity
- Increases Surface Abrasion Resistance
- Excellent As A Coating Or Topping Primer
- Adds Density
- Improves Thermal Resistance (R-Factor)
- Increases Strength
- Zero VOC Or VOS Content
- Prevents Water or free Moisture Migration
- Makes Ice Removal And Cleaning Easier
- Improves Dusting Resistance
- Improves Acid / Chemical Resistance
- Lowers Internal Chemical Reaction Potential
- Lowers Creep Deformation Potential
- Lowers Electrostatic Discharge Potential
- Improves Past Carbonation Effects, If Any
- Fireproof stable to 2,500° F
- Prevents mold and mildew growth
- UV Resistant
- Non-corrosive
- Can be used on interior or exterior surfaces
- Odorless
- Color Stable