

# TECHNICAL DATA & PRODUCT DESCRIPTION

PAGE 1

## SECTION 1: PRODUCT NAME

### DEEP SEAL PLUS



## SECTION 2: MANUFACTURED BY

### ACON PRODUCTS

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## SECTION 3: PRODUCT DESCRIPTION

**DEEP SEAL PLUS**, a Colloidal Silicate subsurface membrane plus Surface Repellent Treatment. **DEEP SEAL PLUS** is an especially formulated aqueous silicate component, cloudy-white in color (dries clear), odorless, non-petroleum, colloidal liquid which is environmentally neutral and user friendly.

## SECTION 4: BASIC USE

### DEEP SEAL PLUS as a Sealer:

When applied to wet, green Portland cement concrete, **DEEP SEAL PLUS** integrally waterproofs, densifies and preserves, attributes beneficial to concrete. **DEEP SEAL PLUS** seals the concrete both internally and externally. It provides a tough breathable barrier just beneath the concrete's surface porosity top and on the surface of the concrete. It provides both vertical and horizontal surfaces more resistance against cracking and spalling during freeze thaw cycles. It provides concrete an effective ion barrier that preserves its imbedded steel. It effectively removes the potential for future hostile contamination ingress, while significantly reducing vapor transmission rate potential, effectively preserving the treated concrete's integrity. The **DEEP SEAL PLUS** is deposited to protect the surface. As **DEEP SEAL PLUS** penetrates to extraordinary depths, depending on concrete's permeability factor and etc., it reacts with interior ingredients such as free alkali or unused calcium hydroxide residue and prolifically converts **DEEP SEAL PLUS'S** unusually low solids colloidal liquid to a 100% solids insoluble precipitant. It instantly provides added density and becomes an integral part of the concrete by occupying its accessible porosity and other tiny voids. It forms a breathable barrier which begins in concrete transitional porosity and its small microporosity. The uniquely induced precipitant barrier does not generate any heat during its conversion from liquids to solids, nor expansion pressures at any time. It significantly decreases the potential vapor gas transmission rate. Because the internally generated barrier has extremely small porosity, it alleviates or eliminates transmission of gases such as radon, forcing them to seek other avenues of escape rather than passing through the concrete.

**DEEP SEAL PLUS** is an excellent primer application for surface toppings, paints, adhesives, etc. It addresses the reasons of potential early coating failures such as capillary / alkaline moisture, saponification, laitance, poor surface adhesion, etc. **DEEP SEAL PLUS** is also an excellent chloride barrier.

### DEEP SEAL PLUS as a Cure:

**DEEP SEAL PLUS** is an excellent alternative concrete curing method providing a cure equal or better than water curing. It provides the usual benefits of a curing agent, plus it provides special ingredients to the yet available capillary mix water waiting to participate in the hydration reaction process, in the plastic or semi plastic concrete, reciprocating acceleration of hydration's reaction rates. This in turn generates increased volumes of cement paste or hydration product in a much shorter time. It utilizes all of the remaining capillary water leaving none to later evaporate and create void spaces. As a result, the concrete's capillary void spaces become more segmented and smaller than usual. **DEEP SEAL PLUS** provides concrete a superior cure imparting extraordinary strength, surface hardness and impermeability and subsequent maximum durability. **DEEP SEAL PLUS** Cure Method provides concrete with a permanent subsurface, specially formulated, colloidal liquid precipitate barrier. Its pore sizes are smaller than concrete's micropores even further diminishing permeability. **DEEP SEAL PLUS** forces gases such as radon, to seek other avenues of escape than through concrete's capillary system. **DEEP SEAL PLUS** Cure Method does not leave a surface residue to interfere with surface bonding quality. It produces concrete that is significantly more internally waterproofed, freeze-thaw damage resistant, dust resistant and acid/chemical resistant.

**Limitations:** **DEEP SEAL PLUS** contacting glass should be rinsed off without being allowed to dry, since glass can become etched.

**DEEP SEAL PLUS** may dull the shine on shiny aluminum, however, its integrity is otherwise unaffected. Do not apply **DEEP SEAL PLUS** to frozen concrete or when ambient temperature is at 35°F and expected to drop shortly.

Wait at least 24 hours before applying paint, adhesives or other coatings that have been treated with **DEEP SEAL PLUS**.

## 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 **DEEP SEAL PLUS** using a medium to high-pressure airless paint spray unit, with fan spray tip. Holding spray tip 6 inches from surface, apply **DEEP SEAL PLUS** at the rate of 200 sq. feet per gallon with an overlapping spray pattern of approximately 20% to 30%. Actual **DEEP SEAL PLUS** volume used may vary, depending on concrete's permeability factor, etc. Do not puddle or buildup can occur, causing a darkening effect.

**DEEP SEAL PLUS** application should begin at lowest point in elevation. For example, walls or steep slopes should be applied side to side, from the bottom up.

### As a Cure Method:

Apply **DEEP SEAL PLUS** with a low-pressure non-atomizing, spray apparatus such as a pump-tank sprayer or mechanical cure slurry pump, or alternatively by flooding-on. Apply **DEEP SEAL PLUS** to the newly placed surface as soon as is practical following its surface finishing phase.