

Top 20 Advantages to Using Densifier plus Cleaner

1. Allows deep cleaning of surface
2. Easy to apply
3. Significantly densifies concrete
4. Waterproofs concrete internally as well as externally
5. Makes concrete virtually impermeable
6. Doesn't harm the environment *or the person who applies it*
7. Doesn't change surface traction
8. Reduces dusting
9. Preserves concrete's integrity
10. Improves thermal resistance
11. Increases acid/chemical resistance
12. Improves surface bond quality
13. Provides internal humidity stability
14. Restricts vapors transmission
15. Adds surface abrasion resistance
16. Increases strengths
17. Eliminates internal water migration
18. Lowers chemical reaction potential
19. Lowers creep deformation potential
20. Alleviates carbonation effects, if any

Densifier plus Cleaner cleans while it densifies. It's the all-in-one solution for your unsightly concrete.

1. Product:

DENSIFIER PLUS CLEANER, a Colloidal Silicate Subsurface Membrane plus Penetrating Cleaner. Also formerly known as PROTECRETE-D+PCF Densifier plus Penetrating Cleaning Formula.

2. Manufacturer:

Applied Concrete Technology, Inc.
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3. Description/Basic Use:

DENSIFIER PLUS CLEANER is a yellow-green (dries clear), non petroleum, odorless, environmentally neutral penetrate in a colloidal liquid base.

As a Densifier/Sealer:

When applied to already set portland cement concrete, DENSIFIER PLUS CLEANER integrally waterproofs, densifies and preserves attributes beneficial to concrete of any age at any point during its useful lifespan. DENSIFIER PLUS CLEANER provides concrete an effective chloride 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. It increases surface abrasion resistance as well as surface acid/chemical damage resistance. As DENSIFIER PLUS CLEANER penetrates ultra deeply into concrete it prolifically reacts with interior ingredients such as free alkali or unused calcium hydroxide residue and prolifically converts DENSIFIER PLUS CLEANER'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's transitional porosity located between the large

surface porosity and its small micro-porosity. The uniquely induced precipitant barrier does not generate any heat during its conversion from liquids to solids, nor expansion pressures at any time. This internally generated barrier remains resilient and consists of pore sizes that are much smaller than concrete's micropores. This further diminishes concrete's void percentages while increasing the impermeability, yet still allowing the concrete to retain its ability to breathe, expand and contract as it needs to. 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.

DENSIFIER PLUS CLEANER halts or significantly retards internal corrosion activity. It seals, strengthens, supplements, densifies and detoxifies concrete without deleterious effect to its external appearance or physical characteristics. DENSIFIER PLUS CLEANER will not impair surface traction quality or bonding ability. Areas treated only need to be closed while treating and may be reopened immediately afterward. NOTE: If surface coating is planned wait about 8 hours (not necessary to wait if surface is track blasted) following treatment. Flush. This removes purged salts, sediments, etc. Then allow the surface to dry. Surface can then be prepared to coating manufacturer specifications. DENSIFIER PLUS CLEANER 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. It is an excellent chloride barrier.

DENSIFIER PLUS CLEANER can be applied to old or new concrete, inside or out without detrimentally affecting the surface quality. It can be used to improve

or enhance any concrete whether traffic bearing or not. DENSIFIER PLUS CLEANER is excellent for use on streets, highway pavement, bridges, parking garage decks, airport pavement, dams, pavers, sidewalks, driveways, basements, tunnels, etc. It will stop water leakage in concrete while it is occurring in installations such as water storage reservoirs, water treatment tanks, below grade concrete with or without hydrostatic pressure, etc. The liquid travels against the water flow when applied to the negative side, permanently arresting the flow of water, a unique feat that is much less complex and labor intensive (and more economical) than trowel on remedies.

Limitations: DENSIFIER PLUS CLEANER contacting glass should be flushed with water and not allowed to dry, since it could etch. It dulls the shine on shiny aluminum, but the integrity is unaffected. Do not apply on frozen substrate or when temperature is near freezing.

4. Some Advantages:

- Significantly densifies concrete
- Internally waterproofs concrete
- Greatly diminishes permeability
- Surface traction quality unchanged
- Improves surface bond quality
- Provides internal humidity stability
- Restricts vapors transmission
- Preserves concrete's integrity
- Adds surface abrasion resistance
- Increases strength
- Eliminates internal water migration
- Increases dusting potential resistance
- Increases acid/chemical resistance
- Improves thermal resistance
- Lowers chemical reaction potential
- Lowers creep formation potential
- Alleviates carbonation effects, if any
- Prevents internal water migration
- Allows deep cleaning of surface

DENSIFIER PLUS CLEANER Continued

Technical Data

5. Technical Data:

Physical: Liquid

Color: Yellow-Green (Dries clear)

Odor: None

Specific Gravity: 1.10

pH: ±12

Flammability: None

Toxicity: None

Paintability: Excellent

Cleanup Solvent: Water

Environmental Impact: None/Neutral

R-Factor Increase: Up to 20%

Surface Bond Quality: Excellent

Chloride Screen ability: Excellent

User Status: Friendly

VOC/VOS Compliant: Yes

Spill Cleanup: Dilute/flush with water

Recommended Coverage: 200 S.F./Gal

6. Installation:

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

- a. Use medium- to high-pressure airless sprayer complete with a 24-inch wand and a .019 fan tip spray jet.
- b. Hold spray tip 6 inches from surface.
- c. Apply to the point of saturation at the rate of 200 square feet per gallon with an overlapping spray pattern of approximately 10% to 15%.
- d. Begin applying at the lowest level elevation. For example, walls and slopes should be applied side to side, from the bottom up.
- e. Wait 20 to 30 minutes; then pressure wash using a medium- to high-pressure machine.
- f. For extremely stained surfaces, you may wish to repeat entire process.

g. Do not apply on frozen substrate or when temperature is near freezing.

h. When applying paint, adhesives or other coatings, wait at least 24 hours after sealing with DENSIFIER PLUS CLEANER (or until contaminants are no longer rising to the surface), then flush surface with water and allow to dry before coating.

i. DENSIFIER PLUS CLEANER may etch glass or dull shiny aluminum and can be difficult to remove from other surfaces once it dries. Cover surrounding surfaces or rinse immediately if sprayed with product.

j. DENSIFIER PLUS CLEANER is safe to use and environmentally friendly. We do recommend use of a painter's mask during application. Refer to MSDS.