



# Protective Sealants

## TECHNICAL DATA

### PRODUCT DESCRIPTION

EcoSeal, Inc. has successfully combined two emerging technologies to address multiple problems of surface protection. Employing a patent pending water based fusion of nano- polymeric particulates, EcoSeal integrates with any surface, hard or soft, to provide sub-micron protection against corrosion, soil adhesion, atmospheric fouling, abrasion, static, and UV degradation with "liquid glass" penetrating sealing. EcoSeal also utilizes nano-metal oxides to densify and strengthen surfaces without hardening to further enhance UV protection and abrasion protection.

EcoSeal protectants work on all hard and soft surfaces to seal, protect, enhance appearance and keep sanitary. Caution: may make smooth floors slippery.



Marine data collection instruments without EcoSeal after 30 days

Marine data collection instruments with EcoSeal after 150 days

### FEATURES and BENEFITS

- Water based, non-flammable, non-toxic, non-abrasive
- Proven to work at high altitudes and ocean depths
- FAA wind tunnel proven to reduce aerodynamic drag
  - Adds no weight or dimension to any surface, viable to 350 deg. C, does not harden
  - Contains no silicones, PTFE' s, oils, waxes, petroleum distillates, or VOCs
  - Protects glass, acrylics, fiberglass, composites, ceramics, polycarbonates, rubber, synthetics and fabrics
- Reflects, absorbs and refracts UV frequencies, but does not impede visible light transmission through glass, acrylics or other clear plastics.
- Protects all metal surfaces and coatings - painted, all plating, powder coat or polished Stainless steel, steel, aluminum, magnesium, titanium, copper, brass, bronze - cast, rolled, extruded, coil, formed or milled.

- Protects against soil, static, atmospheric pollutants, corrosion, UV and oxidation.
- Meets or exceeds industry standard for: ASTM B117 (salt spray corrosion 500+ hours), ASTM F1110 (aviation sandwich corrosion), ASTM F483 (aviation immersion corrosion), ASTM F519-93 (hydrogen embrittlement), ATM F519, Type 1c (hydrogen embrittlement), ASTM F485 (no stain/residue test), ASTM F502 (acrylic crazing) , ASTM F484 (stress crazing on acrylic to 4500 psi), ASTM D56 (flash point 140 deg. limit) Passes Boeing D6-7127 and D6-17487, Douglas CS #1 and AMS 1650C\*
- Photocatalytic Oxidation Technology (PCO) degrades 200+ VOCs per EPA list\*
- Nano metal oxides, catalyzed by light (PCO), oxidize germs, mold, mildew and VOCs per JIZ 2801:2000, ASTM-G21.\*
- Proven long term sanitizing in school trials.\*
- Proven safe for food contact surfaces per FDA CFR 21 175.300 and to adhere to surfaces\*

## TYPICAL APPLICATIONS

Thoroughly clean surface. Spray, dip, wipe or fog a fine coating. Allow to dry completely. Buff if a shiny finish, such as an automobile, is desired. At first application, repeat with a second coat to insure optimum protection. Not for smooth floors as they may become very slick.

- **EcoSeal Finest**  
Is designed to optimize protection for all surfaces: metals, wood, synthetics, fabrics, plastic, acrylics, composites and glass.
- **EcoSeal Fortify**  
Is designed with additional rust and corrosion resistance components for use on metals and all surfaces in the most extreme atmospheres.
- **EcoSeal Finest QSA**  
Adds Quaternary Ammonium complex to **Finest** to disinfect and seal in one step, ideal for Hospitals, retirement centers, medical offices, dormitories, schools; and for use in restrooms, kitchens, cafeterias or wherever sanitary facilities are required.

\*Tests/reports available on request



### Agencies supporting nanotechnology and photo catalyst technology

Government agencies do not endorse specific products

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