



Environmental Coatings Inc.
PRODUCT DATA SHEET
Aqueous Solution Primer Coat

PRODUCT DESCRIPTION: OxiShield Aqueous solution is a non-toxic, environmentally friendly, yellow tinted, water-based, amorphous titania mineral film former that cures clear. OxiShield is spray applied and air-dries to form a clear, colorless, highly durable and protective amorphous mineral film surface that adheres well to a variety of surfaces and promotes intercoat adhesion.

End use applications include the pre-coating of non-transparent surfaces (including reflective glass) of all types, to form ultra thin, transparent barrier films prior to the application of photocatalytic coatings.

APPLICATION BENEFITS: OxiShield adheres well to surfaces of all types including: glass, tile, metal, paint, cement, concrete, wood and plastic.

OxiShield acts as an adhesion, promoting barrier film to insure the long lasting self-cleaning effect of its companion product OxiGuard 1.0% – a highly photocatalytic top coating.

RECOMMENDED USES: For direct use on any surface, including: glass, tile, metal, paint, plastic, wood and composites. OxiShield's robust adhesive qualities, transparent appearance and lack of photoactive properties make it an ideal barrier film to protect organic substrates from degradation by photocatalytic top coatings.

For most inorganic and all organic substrates (paint, plastic or wood), apply OxiShield first, as a barrier film -then apply OxiGuard as a photocatalytic top coat.

PHYSICAL DATA:
Solids by Volume = <0.5%
Solids by Weight = 0.5%-1.0
Weight/Gallon = 8.3 –8.4 lbs. per Gallon
VOC Levels with additives = 0 G / Liter
pH = 6.8 – 8.0
Color – Translucent Yellowish Solution

SURFACE PREPARATION: All substrates should be thoroughly cleaned with soap and water. Avoid window cleaning products containing ammonia to prevent a disruption of pH balance. Ceramics, metal, concrete or cement – wash surface clean and dry before application. Organic Substrates (paint, plastic, wood) – wash surface clean and dry before application.

APPLICATION: Spray apply with a power spray gun and tip size of 0.031 inches (0.8mm) or less. Apply from 12-18". Allow up to 2 minutes for drying between coats and before applying the OxiGuard top coat.

EXPECTED COVERAGE: 500-1,000 sq. ft/liter at 1-3 microns wet (6-12 grams/ sq. meter)

NUMBER OF COATS: 2 coats (Note: each coat is an ultra fine misting until film is formed. Allow 2 minutes between coats.