

PREMIUM TOPCOAT

2 component water based urethane coating with low VOC and better than average UV protection. A premium topcoat for any adequately prepared, substrate such as steel, aluminum, galvanized, fiberglass and concrete. Also ideal for use on properly prepared wood surfaces.

Recommended For:

- Plants and Equipment
- Industrial Equipment Market
- Metal Structures and Structural Components

Suggested Primers:

AquaSET 7300

Features:

- Excellent Color and Gloss Retention
- Outstanding Flow and Leveling
- 2-Component Pack
- Low VOC / Zero HAPS
- Quick-Dry Properties
- Anti-Graffiti Properties

FOR INDUSTRIAL USE ONLY

Surface Preparation: Steel: Clean the surface thoroughly to remove oil, grease, wax, dirt, etc. Take care the surface is not contaminated with flash rust after cleaning or adhesion will be affected. Etch prime galvanized parts. Prime aluminum with an acid primer. Bare steel should be primed (waterborne primers are recommended). Body or wood filler may be used, but care must be taken to ensure that it is properly catalyzed. Under-cured body filler may cause primer to lift. For best results use polyester filler. Be sure to remove sanding dust with a tack rag. If you are in doubt about what the old finish might be, sand it prior to repainting. Concrete: Concrete must be properly cleaned and primed, depending on surface use and condition. Contact Surface Engineered Technologies (SET) for specific recommendations.

Colors:

White and tintable bases.

Shipping Weight:

(approximate due to color, fill level, pigment)
 5 gallon kit:
 4 gallons Part A - 50.4 lbs
 1 gallon Catalyst - 9.3 lbs
 1.25 gallon kit:
 4 gallons Part A - 9.6 lbs
 1 quart Catalyst - 2.7 lbs

APPLICATION DATA

Wet Film Thickness:
Not to exceed more than 6 mil.

Dry Film Thickness:
3-5 mils DFT per coat

Pot Life @ 77°F (25°C):
Approximately 3 hours depending upon color

EQUIPMENT:

Spray Application:
All spray equipment should be thoroughly cleaned and the hose, in particular, should be free of old paint film and other contaminants.
Air Pressure: HVLP 8-10 psi at the air cap
 Conventional 45-60 psi at the gun
 Air-Assisted Airless 60 psi at the gun
Gun Setup: 1.4-1.7 mm or equivalent
 When airless spray equipment is used, the recommended liquid pressure is 2100 to 3300 psi with a tip size from 0.009" to 0.015".

Roller Application:
Short-nap lint free roller.

Brush Application:
Nylon/Polyester bristle brush.

MIXING AND THINNING:

AquaSET 1500 Series comes in two component package. The color base, Part A and the catalyst, Part B are mixed at a 4:1 ratio by volume. Thoroughly mix. Then blend the components together until a uniform color is obtained. Blend slowly to avoid introducing air into the system.

Mixing:	<u>AquaSET 1500 (A)</u>	:	<u>AquaSET 1500 catalyst (B)</u>
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Thinning: No thinning required for most spray applications. If necessary, thin with 10% water.

Spray Application: Do not over thin! Thin with small increments of water until desired application viscosity is reached.

Brush or Roller Application: Do not thin.

CURE SCHEDULE @ 77°F (25°C):

Between Coats	15 minute	Tack Free	45 minute
Curing Time	Cures in the air in about 2 days	Print Free	4 hours
Overcoating Time	Minimum: 2 hours Maximum: If coated after coating is hard to the finger nail, surface must be sanded.		

INSPECTION:

Degree of surface preparation and film thickness shall conform to appropriate specifications outlined in SURFACE PREPARATION and RECOMMENDED FILM THICKNESS sections.

STORAGE CONDITIONS:

Store indoors @ 40°F-110°F (4.4°C-43.3°C)

CHEMICAL RESISTANCE

Although AquaSET1500 Series exhibits resistance to the above environments, this list is not meant to imply an express guarantee in actual service. It is recommended that the user contact Surface Engineered Technologies (SET) for specific recommendations when severe exposure is expected.

Resistance to dry heat up to 120°F. Excellent resistance to weather, moisture, oil spills, abrasion and petroleum. Very good resistance to solvents. Good chemical fumes resistance.

WATER

SALTS

NON-OXIDIZING ACIDS

ALKALINE

PHYSICAL PROPERTIES

PROPERTY	VALUE*
Finish	High Gloss
% Solids by Volume	Average of 47% ± 2%, depending on color
% Solids by Weight	Average of 57% ± 2%, depending on color
Theoretical Coverage @ 1 mil	750 sq. ft. per gallon, depending on color. <i>The actual coverage will be less, depending on application technique, job conditions, and type of surface to be coated.</i>
Viscosity at 77°F (25°C)	55-60 seconds on Zahn 2
VOC Actual	21 ± 2% g/L
VOC Regulatory	42 ± 2% g/L
Flash Point	Part A: >42.8°F (>6°C) / Part B: >100.4°F (>38°C)
Weight of Volatiles	42.7%
Weight of Exempt	41%
Volume of Exempt	51%
Density	10.22 g/l
Shelf Life (when kept at the recommended storage conditions and in original, unopened containers)	6 months @ 77°F (25°C)
Pigment Type	Chemical Resistant
Solvent Type	Water
Vehicle Type	Modified Acrylic
	*Values listed will be color dependent Values blended 4:1

SAFETY

Read Safety Data Sheets and container label cautions and warnings for important safety and health information prior to use. KEEP OUT OF REACH OF CHILDREN.

Ventilation: When using in enclosed areas, adequate air circulation must be used during and after application until the coating is fully cured. The ventilation system should be capable of preventing the solvent vapor concentration from reaching the lower explosion limit for the solvents being used. If the user is not sure or not able to monitor the levels, then use an approved (MSHA/NIOSH) respirator.

Caution: This product does not contain flammable solvents. However, clean-up solvents that may be used do contain flammable solvents. Keep away from sparks and open flames. All electrical equipment/installations should be grounded in accordance with the National Fire Protection Association's (NFPA 70®)/National Electric Code® (NEC®). In areas where potential explosion hazards exist, personnel should be required to use non-ferrous tools and wear conductive, non-sparking shoes.

DISCLAIMER

At the time of publication, the product and technical data contained herein is believed to be accurate by Surface Engineered Technologies (SET). SET is committed to the continual improvement of its coatings, which may cause future product/technical data to change without prior notice. Our products are intended for use by properly trained personnel in industrial applications. Product performance will depend upon surface preparation, technique, method of application, surface to be coated and environmental conditions. However, there is no guarantee of comprehensiveness, accuracy or product performance given or implied herein. SET recommends that products be tested regarding these parameters prior to final use. **Always refer to the current Safety Data Sheet before use.**

WARRANTY: Surface Engineered Technologies (SET) warrants its products to be free of defects in materials and workmanship. Since SET has no control over surface preparation or application methods, no guarantee concerning results is offered, expressed, or implied. If this product is found to be defective, liability shall be limited to the refund of purchase price or replacement of product.

