



**ESGARD**

## **AQUAGARD 7100 WATERBORNE VINYL PRIMER**

<b>DESCRIPTION</b>	AquaGard 7100 is a high performance single component primer and intermediate coat that uses potable water for thinning and clean-up. AquaGard 7100 is ideal for use in severe marine environments where maximum safety and elimination of hazardous waste is desired. It contains no lead or chromium pigments, has a low V.O.C. content and is non-combustible with no lower explosive limit. Available in red, black, and yellow oxide.
<b>FIELD OF APPLICATION</b>	AquaGard 7100 provides a level of protection better than traditional zinc and epoxy systems. It is ideal for use as an environmentally friendly primer and intermediate build coat on offshore structures, drilling rigs, ships, supply boats, barges, storage tanks and pipelines. It is particularly useful for application in engine rooms that are operating or in shipyards where simultaneous welding and painting must take place.
<b>SERVICE CONDITIONS</b>	AquaGard 7100 will withstand 140°F (60°F) continuous dry heat. Do not apply to damp surfaces. Do not use where the dried film will be exposed to strong solvents or extreme abrasion. AquaGard 7100 may be applied over aluminum with special application procedure.

### **TECHNICAL DATA**

TYPE	Waterborne vinyl
VOLUME SOLIDS	40% Varies slightly with color
V.O.C.	0.01 lb/gal (2 g/l), excluding water. Varies slightly with color.
DENSITY	11.6 lb/gal (1.4 kg/l) Varies slightly with color
COVERAGE (Theoretical)	641 sq ft/gal at 1 mil dry (2.5 mils wet) 15.8 sq m/l at 25 microns dry (63 microns wet)  160 sq ft/gal at 4 mils dry (10 mils wet) 4.0 sq. m/l at 100 microns dry (250 microns wet)

NOTE: When figuring practical coverage, allow for application losses, surface irregularities, any solvent addition, etc

RECOMMENDED DRY FILM THICKNESS COAT	4.0 - 5.0 mils	(100 - 125 microns)
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DRY TIME @ 4 MILS  
DFT, 80°F (27°C)  
65% R.H.

To touch: 1/4 - 1/2 hour (Color change)  
To recoat 3 - 4 hours No maximum recoat time provided surface is clean  
Final cure 4 days for a single coat, 14 -21 days for a complete system

NOTE: AquaGard 7100 goes through a noticeable color change during initial drying. After the color change, the applied film will not be damaged by rain or surface water. If the color change takes more than 45 minutes to occur after application, allow to dry overnight before recoating.

Also, drying time will be affected by film thickness, lack of air movement, high humidity, variation in temperature or a combination of these conditions.

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## **SURFACE PREPARATION**

Surfaces to be coated must be clean and dry. Remove any oil, grease, salt or chemical contamination by scrubbing with detergent followed by a fresh water rinse and allow drying in accordance with SSPC-SPI-82.

STEEL - Remove all loose paint, rust and mill scale by abrasive blasting to SSPC-SP10-82 near-white metal or better or with a 1.0 - 2.0 mil (25 - 50 microns) anchor profile. Where impractical, a thorough power tool cleaning is acceptable for small areas.

ALUMINUM OR GALVANIZED - Remove all oxidation ("white rust") by sweep blasting with fine sand so that surface is clean and there is a uniform anchor profile of approximately 1.0 mil (25 -50 microns). Small areas may be thoroughly sanded provided there are no pits. Please refer to the special application procedure below for coating aluminum.

EXISTING COATINGS - AquaGard 7100 is compatible with most tightly adhering existing coatings when properly prepared. Tight coatings in good condition should be sanded or sweep blasted with fine sand to provide a clean roughened surface. Brittle coatings must be completely removed. A test patch is always recommended to verify adhesion.

REPAIRS TO NEWLY APPLIED AQUAGUARD 7100 - Until final cure has been achieved, areas to be repaired should be sanded and feather edged into good areas. Spot blasting tends to lift adjacent areas of undamaged coating until maximum adhesion has been reached.

## **APPLICATION CONDITIONS**

Equipment that is sweating or constantly warm to the touch must be taken out of service during application and curing. (Or, use UltraGard 201 All Season Epoxy.) Surfaces that are heated by direct sunlight can be painted as they will cycle to cooler temperatures during the curing phase. Do not apply at temperatures less than 45°F (7°C). Application at temperatures between 45°F (7°C) and 60°F (16°C) is permissible only when relative humidity is below 70% and there is at least a 5 - 7 m.p.h. (8 - 11 km/hr) breeze. In addition, the surface temperature should be at least 5°F (3°C) above the dew point. Dehumidification equipment,

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indirect heating, or forced air movement may be used to improve ambient conditions in enclosed areas.

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## APPLICATION

Mix - Thoroughly stir with a power mixer to insure all pigment is suspended and material is of free-flowing consistency. Boxing or stirring with a stick is not acceptable.

Thin - Usually none required. Should thinning be necessary for proper atomization or to improve flow into tight areas, up to 6 oz. Of potable water per gallon may be added.

Spray - Use suitable conventional or airless spray equipment with new fluid lines. Flush fluid line with potable water prior to filling with paint. Note that AquaGard 7100 will loosen solvent based coating residue in used hoses, clogging the fluid tip.

Conventional: Pressure pot should have an oil/water trap, double regulators, and minimum 3/8" atomization air hose and a new 1/2" fluid line installed. Gun should have stainless steel fluid tip and needle and be DeVilbiss with a (D) tip and #64 air cap or Binks with #68 set up. Pot pressure should be approximately 30 p.s.i.

Airless: Use Graco Bulldog 30:1 or equal with Teflon packing and minimum 3/8" I.D. fluid hose stainless steel .419 fluid tip and a stainless steel airless spray gun such as a Binks 700 or equal. Fluid tip pressure should be 2400-2600 p.s.i.

Spray Technique - AquaGard 7100 should be applied in a continuous wet film using a cross hatched spray pattern to a thickness of 10.0 - 12.0 mils (250 - 300 microns) wet. This is also the proper way to paint pits without flood coating. Avoid applying excessive film build that may mud crack.

Special Procedure for Coating Aluminum to Avoid Blistering - Apply a thin coat of AquaGard 7100 @ 0.5 - 1.0 mil (12 - 25 microns) dry film thickness. Allow to change color then apply additional 3.5 dry mils (88 microns).

Brush - Use a clean pure china bristle brush.

Roll - Use a quality short to medium nap roller with a woven pile and phenolic core. A solvent resistant foam roller provides an excellent finish.

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Brushing and Rolling Technique - When brushing or rolling AquaGard 7100, allow coated areas to go through color change. Then apply multiple passes to build up millage, allowing each pass to change color. This is necessary because brushing or rolling tends to push material thinner than is required. When proper film thickness is achieved, allow at least 4 hours recoat time before proceeding.

**POT LIFE  
CLEAN UP**

Not applicable. Unused material may be put back into the original container. Use potable water. Dried film on spray gun may be cleaned with Esgard Thinner 103 or MEK. For personal cleanup, use soap and water.

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**ORDERING  
INFORMATION**

CONTACT # 1-800-888-2511

SHIPPING WEIGHT		<u>1 GAL</u>	<u>5 GAL</u>
	AquaGard 7100	12.5 lb (5.7 kg)	62.0 lb (28.20 kg)

FLASH POINT 205°F (96°C)

COLORS	RED	(7100-R-001)
	BLACK	(7100-B-001)
	YELLOW OXIDE	(7100-Y-001)

SHELF LIFE Twelve (12) months from date of shipment.

**CAUTION** **FOR INDUSTRIAL USE ONLY! PROTECT FROM FREEZING.** Do not use spray equipment containing aluminum or galvanized (zinc) parts which contact the material being sprayed. Gassing may occur resulting in over pressurizing the equipment with explosive force.

**SAFETY** Refer to Material Safety Data Sheet supplied with each order.

**FIRST AID** Refer to Material Safety Data Sheet supplied with each order.

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