

**TRIANGLE INDUSTRIAL****AquaGuard™****Water Reducible Silicone Alkyd Enamel****Specifications****DESCRIPTION:**

**AquaGuard 10 Series** is a water reducible gloss silicone alkyd enamel designed primarily for the maintenance of industrial iron and steel structures in VOC regulated areas. **AquaGuard** has the exceptional gloss retention and general durability of solvent borne silicone alkyds. **AquaGuard** has an established record of 10-year durability in fully exposed marine environments, with equally good abrasion and dirt resistance. **AquaGuard 10 Series** can withstand temperatures up to 350° F. Designed for direct application to iron and steel **AquaGuard** can also be applied over primed and previously painted steel, wood and galvanized metal. Use over primed iron and steel provides the best corrosion inhibition and general durability but sacrifices a little gloss due to striking into the primer. **AquaGuard** is also available as a satin sheen on special order. **AquaGuard 10 Series** is designed for, and best applied by spray.

**USE:**

Design use is on fully exposed steel structure fabrications, especially those subject to severe climatic conditions or moderately high heat. Typically used on steel storage tanks, light towers, ski lifts, smokestacks, tanks and transmission pipes. Also used as an OEM finish on larger, fabrications; farm equipment, trailers and truck accessories.

**ADVANTAGES:**

- Excellent color and gloss retention
- Withstands temperatures up to 350° F depending on color
- Proven 10-year durability
- Hard, serviceable finish
- Easy to apply and recoat
- No primer required – DTM (Direct to Metal)

**LIMITATIONS:**

- Not intended for temperatures exceeding 350° F
- Yellows in absence of sunlight.
- Not intended for brushing large areas.
- Requires 2 – 3 day cure to prevent water spotting.
- Limitations inherent in waterborne paint: very temperature sensitive dry, should not be used below 50° F or above 90° F, and requires absolutely clean, grease and oil free surfaces.
- Not recommended for surfaces subject to submersion or direct chemical contact.
- Six month shelf life. Should be manufactured to order.

**Properties**

**VOC:** [as packaged] ..... 243 g/l – (2.02 lbs/gal)

**FLASH POINT:** [setaflash] ..... 150° F

**APPEARANCE:** [Gloss at 60°]

Gloss (G) ..... 80-90

**WEIGHT PER GALLON:** [average] ..... 10.5 lbs

**PACKAGE VISCOSITY:** ..... 90-100 KU

**SOLIDS:** [average]

By Weight ..... 56 ± 1%

By Volume ..... 35 ± 1%

**COVERAGE:** [average]

Theoretical at 1 mil DFT ..... 575 sq ft/gal

Theoretical at 1.5 mils DFT ..... 383 sq ft/gal

Required Minimum DFT ..... 3 mils

Recommended DFT per coat ..... 1.5 mils

**DRY SCHEDULE:** [at 50% RH and 1.5 mil DFT]

	50° F	60° F	75° F	90° F
<b>Touch</b>	2 hrs	1.5 hrs	45 mins	30 mins
<b>Handle</b>	24 hrs	4 hrs	2 hrs	1.5 hrs
<b>Recoat</b>	24 hrs	8 hrs	4 hrs	2 hrs
<b>Rainproof</b>	168 hrs	96 hrs	72 hrs	36 hrs

**COLOR AVAILABILITY:**

**AquaGuard 10** is packed as white. Shelf life is six months and product is best manufactured to order. Custom color available with 25 gallon minimum order.

**ORDER CODE:**

**AquaGuard 10 Series** products are identified by the product series number, followed by a gloss identifier (G=Gloss) and ending in the color number. For example:

AquaGuard, Gloss, White ..... 10G700

**Code Sequence** ..... 10+ gloss + color

**PACKAGING:** [average]

Four ea. 1 gallon cans per case ..... 50 lbs

One ea. 5 gallon plastic pail ..... 60 lbs

**Shipping & Handling**

**SHIPPING DESCRIPTION:** [CFR 49]

**Ground, Air, Vessel** .... Non Regulated Material  
Required Label & Marking ..... Not Required

**IMDG PACKAGING:** ..... Not Required

**IMDG STOWAGE:** ..... Not Regulated

**UNIFORM FIRE CODE:** [CFR 29] ..... CLASS III-A

**STORAGE TEMPERATURE:** ..... 120° F max

**SHELF LIFE:** [warranted] ..... 1 YEAR

**HMIS RATINGS:** ..... H - 2; F - 1; R - 0; PP - G

# AquaGuard™

## Water Reducible Silicone Alkyd Enamel

### Application Data

#### REQUIREMENTS

- Surface and ambient temperatures must be +50°F
- Maximum surface temperature 110° F  
Maximum recommended ambient is 90° F  
Above 90° F - Use of a retarder is necessary.
- Surface temperature must be no more than 10° F cooler than ambient. Ideal surface temperature is at or above ambient.
- All contaminants must be removed; all oils, grease, dirt, rust, scale, moisture, silicones, etc.
- Minimum surface prep is SSPC-SP1, 2 or 3.
- Galvanized metal, wood and masonry must be primed.
- Epoxy and urethane finishes must be abraded to 100% dull.

#### PRIMING:

Metal: Iron, Steel or Galvanized **932 AquaPrime**  
Wood, Masonry ..... **280 AllPrime**

#### FILM DEVELOPMENT & THICKNESS:

**AquaGuard 10** is designed for two coat application at 1.5 mils DFT per coat. Two coats are recommended regardless of whether or not a primer is used. **AquaGuard 10 Series** applied to a smooth sealed surface will produce a 1.5 mils DFT and allow for 3% waste when applied at 325 sq ft/gal. Second coats will strike into the first. Maintenance of uniform gloss requires a 10 – 15% reduction in spread rate, typically to 275 sq ft /gal.

#### MIXING-THINNING: .....

Proper thinning varies with equipment, tolerance for orange peel, and temperature. In general, fresh stock in temperatures below 70° F is applied at package viscosity. At 70 – 90° F, **AquaGuard 10** is reduced with 1 – 2 fl.oz. of water. Temperatures above 90° F require the addition of 1 to 2 fl.oz. of **AquaGuard Retarder 37-006**, along with water.

#### APPLICATION:

**AquaGuard** is applied by spray, unless product drying time is slowed with **AquaGuard Retarder 37-006**. Airless and conventional methods are equally appropriate. HVLP and air assist airless are effective and legally necessary in regulated shop applications but impart more orange peel. Regardless of equipment, the key to effective application is applying the wettest possible film. In all temperatures this means the smallest tip/fluid nozzle for maximum atomization, as little air as

possible, holding the gun as close as possible, and in warm weather, reducing and retarding as necessary.

**Airless:** ½ gpm or larger pump, Binks .011" or .013" tip with companion preorifice tip used with a 120 mesh tip filter.

**Conventional:** Binks 2001, 18 or 62 gun, .020" – .040" fluid nozzle with air cap appropriate for feed and available air.

**HVLP:** Binks 89 or 90 fluid nozzle, (.020" – .030") with fluid pressure set to produce a 6" stream without air cap.

**Air Assist Airless:** .011" tip; maximum fluid pressure to 2000 psi, least air possible.

**CLEANUP:** ..... Water Flush lines, hands, etc. clean with water immediately after use. Waste water will contain hazard-free particulates. Allow waste water to settle. Decant and allow residue to dry. When dry, dispose as hazard-free dry waste. Place decanted water in public sewer (not storm) or reuse as appropriate. Dried material on tools can be removed with **AT17 Wash Thinner**. Clean hands and skin with a waterless, paint removing hand cleaner.

### Health & Safety

#### CAUTION:

CAUSES IRRITATION. DO NOT INGEST. Contains 2-Butoxyethanol, CAS # 111-76-2. Avoid contact with eyes and skin. Wash hands thoroughly after using and before eating and smoking. If spillage occurs, absorb and dispose of according to local regulations.

#### FIRST AID:

Should eye contact occur, flush with plenty of water for at least 15 minutes and get medical attention if vision is disturbed. For skin, wash thoroughly with soap and water. If swallowed, seek medical attention immediately. DO NOT induce vomiting.

**THIS PRODUCT IS FOR  
PROFESSIONAL USE ONLY.**

**KEEP THIS PRODUCT OUT OF THE  
REACH OF CHILDREN.**

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