

# AquaMAX™ DTM

## Direct to Metal, Corrosion Inhibiting Acrylic Enamel

### SELECTION DATA

#### DESCRIPTION:

**AquaMAX DTM, 18 series**, is a direct to metal, fast dry, corrosion inhibiting, acrylic latex semigloss finish for exterior metal surfaces. **AquaMAX DTM** uses a new generation, hard drying acrylic resin that features excellent block and abrasion resistance, excellent seal and water resistance and excellent UV resistance and long term durability. **18 series** uses zinc phosphate pigmentation for long term corrosion inhibition. The combination of effective active corrosion inhibition and a dense water impermeable and water resistant film provides excellent, long term protection for iron and steel.

#### USE:

**18 series AquaMAX DTM's** design use is for priming and finishing structural steel where relatively demanding environmental exposure is required, i.e.; bridges, light towers, exposed structural steel in buildings/ parking garages, etc. It is highly recommended as a one coat finish for galvanized metal in mild to moderate exposures: galvanized buildings, storage silos, gutters, downspouts and flashings and as a two coat primer/finish for the same surfaces in more humid/severe climates. **AquaMAX DTM** is also an excellent all surface maintenance finish in industrial facilities. **18 series** will provide superior protection on iron, steel, galvanized, aluminum, wood, drywall, concrete, CMU, brick and cement plaster in both interior and exterior service.

#### ADVANTAGES:

- Nonflammable.
- Low environmental impact water borne formula.
- Simple, safe water clean up.
- DTM primer and finish.
- Literal state of the art protection for iron and steel.
- Multi-surface versatility.
- Good gloss and color retention

#### LIMITATIONS:

- May be too fast drying for brushing large areas.
- Not recommended for chemical environments or submersion including prolonged or constantly reoccurring ponding.
- Not for traffic bearing surfaces or surfaces subject to negative hydrostatic pressure.

### PHYSICAL PROPERTIES

**VOC:** [as packaged] ..... 180g/l - (1.5 lbs./gal.)

**APPEARANCE:** [Gloss at 60°]

Semigloss (S) ..... 45 – 55

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

**FLASH POINT:** [setaflash] ..... 149° F.

**PACKAGE VISCOSITY:** ..... 80 – 90 KU

**SOLIDS:** [average]

By Weight ..... 50 ± 2%

By Volume ..... 36 ± 2%

**COVERAGE:** [average]

Theoretical at 1 mil DFT ..... 577 sq.ft./gal.

Theoretical at 2 mils DFT ..... 289 sq.ft./gal.

Recommended minimum DFT ..... 2 mils.

[On new unpainted; 2 mils per coat, 2 coats]

**DRY SCHEDULE:** [at 50% RH and 2 mils DFT]

	50° F.	60° F.	75° F.	90° F.
<b>Touch</b>	2 hrs.	1 hrs.	30 mins.	25 mins.
<b>Recoat</b>	24 hrs.	8 hrs.	4 hrs.	3 hrs.
<b>Rainproof</b>	24 hrs.	8 hrs.	4 hrs.	3 hrs.
<b>Hard Cure</b>	14 days	7 days	4 days	3 days

#### COLOR AVAILABILITY:

**AquaMAX DTM 18** is available in a limited number of colors. Contact you Triangle Coatings representative for details.

**ORDER CODE:** ..... 18 + gloss + color #

Individual products are identified by the product series number, followed by a gloss identifier (S=semigloss) and ending in the color number For example, 18S700 is **AquaMAX DTM (18)** semigloss (S) White (700).

**PACKAGING:** [average]

Four ea. 1 gallon cans per case ..... 40 lbs.

One ea. 5 gallon plastic pail ..... 50 lbs.

One ea. 55 gallon metal drum ..... 460 lbs.

Continued 

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Direct to Metal, Corrosion Inhibiting Exterior Metal Enamel

## APPLICATION DATA

### REQUIREMENTS FOR APPLICATION:

- Both surface and ambient temperatures should be above 50° F.
- Surfaces being primed must be dry, +5° F. above the dewpoint and protected against moisture until rainproof as per chart above.
- Surfaces must be clean, 100% free of contaminants through which water cannot penetrate including accumulated dirt/dust, oils, grease, mud and any form of silicone.
- All rust and mill scale should be removed. Minimum prep. is SSPC-SP1 for non critical uses in moderate environment; SSPC-SP7 or better for long term protection in severe environments.
- All loose, peeling or otherwise marginally adherent paint must be removed. Old enamels and other slick surfaces must be abraded to dull.

### FILM DEVELOPMENT & THICKNESS:

**AquaMAX DTM** is designed for application at a rate that will produce a dry film thickness of 2 mils per coat. One coat is recommended for non critical uses, galvanized gutters or non exposed structural steel and two coats for critical or severe exposures such as bridges or power line towers. Unreduced **AquaMAX DTM** applied at 280 sq.ft./gal. produces a 2 mil DFT with 3% waste.

### THINNING:

**AquaMAX DTM** may be thinned with potable water up to 15% by volume to enhance leveling or extend open time. However, spread rates must be reduced proportionally and film thickness maintained.

### APPLICATION:

**AquaMAX DTM** is recommended for application by brush, mitt and spray. Brush small areas, irregular and hard to reach spots. "Cut in" to spot prime problem areas such as bolts or welds and to touch up. Mitts are recommended on small diameter pipes and on small angle or channel iron. However, mitts apply very uneven films; monitor film thickness. Airless is recommended for large surface painting. Conventional and HVLP are appropriate anywhere overspray is not a problem.

**Brush:** Professional quality nylon and nylon polyester blended brushes.

**Airless:** +1/2 gpm, .015" – .017" tips.

**Conventional/HVLP:** .040"-.050" fluid nozzles.

**CLEANUP:** ..... Water  
Clean up tools, hands and splatters with water. Dried **AquaMAX DTM** can be cut with AT17 Wash Thinner.

## SAFETY AND HANDLING

**FLASH POINT:** [setaflash] ..... 248° F. (120° C.)

**SHIPPING DESCRIPTION:** [CFR 49]

**Domestic Ground/Air/Vessel:** ..... Not regulated

**IMDG PACKAGING & STOWAGE:** ... Not regulated

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

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

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

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

(11/19/01)

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