

#### SPECIFICATIONS

##### DESCRIPTION:

TriAqua™ is a one part, water reducible, air dry, alkyd enamel. TriAqua™ produces a near automotive gloss and will provide very good protection and adhesion to properly prepared metal surfaces. This high grade alkyd enamel had very good gloss and color retention.

##### USE:

TriAqua™ is recommended for use on:

- steel
- galvanized, primed
- aluminum, primed

##### COLOR AVAILABILITY:

TriAqua™ is available in factory colors; refer to Triangle Industrial Products color card. Custom colors available; minimum order is required. Special costing will be applied.

##### ORDER CODE:

TriAqua™ ..... 16 + gloss + color  
Individual products are identified by the product series number, followed by a gloss identifier and color number.

##### PACKAGING:

TriAqua™:  
1 gallon cans  
5 gallon pails  
55 gallon drums

**KITS:** Kits are not available for this product.

##### ADVANTAGES:

- Very high gloss
- Contains no lead or chromate
- Economical cost per square foot ratio
- Water cleanup

##### LIMITATIONS:

- Not for use in submersion applications
- For DTM applications, zinc or iron phosphate conversion coating is recommended
- Maximum RH at worksite: 75%

#### PROPERTIES

##### DRY SCHEDULE: [at 50% RH and 2.0 mil DFT]

	60° F	77° F	90° F
<b>Dry to Touch</b>	2 hrs	60 mins	45 mins
<b>Recoat</b>	16 hrs	4 hrs	2 hrs
<b>Dry to Handle</b>	24 hrs	8 hrs	4 hrs
<b>Full Cure</b>	7 days	7 days	7 days
<b>Critical Recoat Window:</b> N/A			

**VOC:** [as supplied] ..... 1.0 lbs/gal (124 g/l)

**VOC:** [excluding exempt materials] ..... 2.7 lbs/gal (324 g/l)

**FLASH POINT:** [setaflash] ..... 150° F (65.5° C)

**WEIGHT PER GALLON:** ..... 9.5 lbs (4.3 kg/liter)

##### PACKAGE VISCOSITY:

# 3 Zahn Seconds ..... 35

##### SOLIDS: [average]

% By Weight ..... 41.0 ± 2%

% By Volume ..... 30.0 ± 2%

##### COVERAGE: [average]

Theoretical at 2.0 mil DFT ..... 240 sq ft/gal

##### REQUIRED FILM THICKNESS:

ASTM D1005 Minimum Dried Film ..... 1.5-2.0 mil (48-72µ)

ASTM D4414 Minimum Wet Film ... 5.6-6.7 mil (144-216µ)

##### ASTM D523 GLOSS:

@ 60° ..... 90+

@ 20° ..... 90

##### ASTM D3363 PENCIL HARDNESS:

HB-H ..... Pass

##### ASTM D5402 MEK RUBS:

10 Double ..... Pass

##### ASTM D2794 IMPACT RESISTANCE:

40 inlb forward, 10 inlb reverse ..... Pass

##### ASTM B117 SALT SPRAY RESISTANCE:

5% Salt Spray, 150 hours [BondRite 1000] ..... Pass

##### ASTM D5894UV CORROSION WEATHERING:

ASTM D610 Rusting 7 cycles, 150 hours ..... Pass

ASTM D714 Blistering 7 cycles, 100 hours ..... Pass

##### ASTM D4587/D523/D4214 QUV-UVA:

500 hours @ 60° ..... 20% loss

1000 hours @ 60° ..... 55% loss

##### ASTM D2247/D714 HUMIDITY RESISTANCE:

400 hours [unscribed] ..... Pass

##### ASTM D4585 MOISTURE CONDENSATION:

100° F, 400 hours ..... Pass

##### ASTM D3359 ADHESION:

5B ..... Pass

##### ASTM D4060 ABRASION RESISTANCE:

CS17 wheel, 110 cycles, 1 kg load ..... Pass

##### ASTM D522 FLEXIBILITY:

180° bend, 1/4" mandrel ..... Pass

##### ASTM D3170 CHIP RESISTANCE:

Rating ..... N/A

##### ASTM D2485 DRY HEAT RESISTANCE:

200° F ..... Pass

##### WET HEAT RESISTANCE:

180° F Non-immersion ..... Pass

##### ASTM D2243 WATER-BORNE FREEZE THAW:

3 cycles ..... N/A

All tests conducted at 1.5-2.0 mils DFT on Bondrite™ 1000 Q-steel panels, fully cured, 7 days, air dry, at 77° F and 50% RH

# TriAqua™

## Water Based Topcoat

### APPLICATION DATA

#### SURFACE PREPARATION:

All surfaces must be clean, dry, and free of contaminants. All dirt, grease, rust, mill scale, or loose chalky paint must be removed.

Recommended surface preparation includes:

- surface blasting to remove all mill scale (maximum profile: 0.5-1.0 mils)
- iron phosphate\* (35-40 milligrams per square foot)
- zinc phosphate\* (25-30 milligrams per square foot)
- non phosphate with seal rinse

\*seal coat or DI final rinse recommended

#### APPLICABLE SUBSTRATES:

- Ferrous or non ferrous
- Primed galvanized
- Properly prepared concrete

#### RECOMMENDED PRIMERS:

- **964P ShopCoat W** - economical, fast dry, water based
  - **965P TriPrime W** - fast dry, corrosion resistant, water based
  - **283P Aquapoxy** - 2-part, water based epoxy
- Consult Triangle Coatings for other primer recommendations.

#### APPLICATION TEMPERATURE:

- Substrate must remain 10° F above the dew point during application and for 24 hours after application.
- Not recommended for substrate temperatures below 50° F or above 100° F.

#### MIXING PARAMETERS:

This is a one part product. No mixing is necessary for this product. **TriAqua™** can be reduced up to 3% by volume with potable water.

#### APPLICATION METHODS:

**TriAqua™** can be applied by HVLP, air assist airless, airless, brush, or roller. For **electrostatic applications**, please contact your Triangle Coatings representative.

##### HVLP:

Fluid Tip and Needle: ..... .035"  
 Fluid Pressure: ..... 8-10 psi  
 Air Cap Pressure: ..... 60 psi

##### Air Assist Airless:

Fluid Tip: ..... .012 - .015"  
 Fluid Pressure: ..... 800-900 psi  
 Air Cap Pressure ..... 10-15 psi

##### Airless:

Fluid Tip: ..... .015"  
 Fluid Pressure: ..... 1,800-2,000 psi

**Brush or Roller:** ..... yes

**THINNING:** ..... Water

**CLEANUP:** ..... Water  
 Clean tools with detergent and water while **TriAqua™** is still wet.

### HEALTH & SAFETY PRECAUTIONS

#### WARNING:

**FLAMMABLE LIQUID AND VAPOR. DO NOT INGEST.** May be harmful if swallowed or inhaled. Vapor may affect the brain or nervous system causing dizziness, headache, or nausea and can cause nose and throat irritation. Liquid contact with eye and skin causes irritation. Keep away from sparks, heat, or open flame. Use with adequate ventilation. Avoid breathing of vapor. Avoid contact with eyes and skin. Wash hands thoroughly after using and before eating and smoking. Wear an appropriately fitted respirator (NIOSH/MSHA approved) during and after application unless air monitoring demonstrates vapor levels are below applicable limits. Keep container closed when not in use. If spillage occurs, absorb and dispose of according to local regulations.

#### Contains:

sec-Butyl alcohol, CAS#78-92-2  
 ammonium hydroxide, CAS#1336-21-6  
 xylene, CAS#1330-20-7  
 diisobutyl ketone, CAS#108-83-8

#### 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.

#### NOTICE:

Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage.

#### CA PROPOSITION 65:

This product contains materials known to the state of California to cause birth defects or other reproductive harm.

**THIS PRODUCT IS FOR PROFESSIONAL USE ONLY.  
 KEEP THIS PRODUCT OUT OF REACH OF CHILDREN.**

### SHIPPING & HANDLING

#### SHIPPING DESCRIPTION: [CFR 49]

**Ground, Air, Vessel** ..... Not Regulated  
 Required Label ..... Not Required  
 Required 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 - 2; R - 0; PP - B

**WARRANTY:** The statements made herein, on labels, product bulletins, or by any of Triangle Coatings', Inc. employees or agents concerning this product are given for general information only. Due to variables beyond Triangle's control in application, surface preparation, surface temperature, humidity and other variable factors Triangle assumes no liability for any claim that may arise out of the use of its products and disclaims any warranty expressed or implied relating to the storage, application, thinning, merchantability, Buyer's assumption of performance, and the fitness for a particular purpose. Receipt of products from Triangle or its agents constitutes acceptance of the terms of this warranty. In the event that Triangle finds that the product delivered is not of Triangle's standard quality, Triangle will at its sole discretion, either replace the product or refund the purchase price. Triangle's choice of one of these remedies shall be the Buyer's sole remedy. Triangle will under no circumstances be liable for consequential damages, except insofar as liability is mandated by law. Triangle will deliver products at agreed times insofar as it is reasonably able to do so, but it will not be liable for failure to deliver on time when the failure is beyond its reasonable control.

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