

TRIANGLE OEM

TriAqua W™

Ultra Low VOC, Water Based Topcoat

50 SERIES

Base Part A 50
Activator Part B 50B

SPECIFICATIONS

DESCRIPTION:

TriAqua W is the newest generation 2-part acrylic topcoat utilizing cutting edge technology. TriAqua W cures to a tough, abrasion resistant film. This product exhibits excellent gloss and color retention when exposed to extreme weather in exterior applications. When applied over a high performance primer, TriAqua W meets or exceeds most OEM specifications for heavy construction and farm implement equipment.

USE:

- TriAqua W is ideal for use on:
- shop finished architectural components
 - heavy construction equipment
 - farm implement equipment
 - other miscellaneous metal parts

Product results will vary by substrate and application method. **It is the user's responsibility to determine the suitability and performance of this product for their application.**

COLOR AVAILABILITY:

TriAqua W 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: [Mix Ratio: 43 Part A : 1 Part B, by volume]

Part A [base] 50 + gloss + color
Part B [activator] 50B

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

Ex: 50G700 is TriAqua, Gloss, White.

This product is available in:

Gloss G
Semi-Gloss S

PACKAGING:

| Part A: | Part B: |
|-----------------|------------------|
| 1 gallon cans | 4 ounce bottles |
| 5 gallon pails | 16 ounce bottles |
| 55 gallon drums | (5) quart cans |

KITS: Containers may be partially filled.

| Total Yield: | Part A: | Part B: |
|--------------|------------|--------------|
| 1.02 gallons | 1 gal can | 4 oz bottle |
| 5.12 gallons | 5 gal pail | 16 oz bottle |

ADVANTAGES:

- Low VOC
- Very long term gloss and color retention
- Very high gloss
- Excellent chemical and weather protection
- Very good impact and abrasion resistance
- Excellent flexibility and chip resistance
- Extremely durable
- Meets or exceeds OEM topcoat specification

LIMITATIONS:

- Not recommended for immersion into gasoline, diesel, hydraulic fluids or solvents
- For long term salt spray resistance, epoxy primer required
- Maximum RH at worksite: 75%

PROPERTIES

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

| | 60° F | 77° F | 90° F |
|---------------|--------|---------|---------|
| Dry to Touch | 2 hrs | 30 mins | 15 mins |
| Recoat | 4 hrs | 45 mins | 20 mins |
| Dry to Handle | 8 hrs | 60 mins | 45 mins |
| Full Cure | 7 days | 7 days | 7 days |

Critical Recoat Window: After one week light sanding may be necessary if coating is subject to extended exterior exposure.

VOC: [excluding exempt solvents, mixed] 0.81 lbs/gal (<98 g/l)

VOC: [including exempt solvents, mixed] 0.39 lbs/gal (46 g/l)

FLASH POINT: [setaflash, mixed] > 250° F (121° C)

WEIGHT PER GALLON: [mixed] .. 10.3 ± 0.5 lbs (2.73 kg/liter)

APPLICATION VISCOSITY: [recommended, mixed]

3 Zahn Seconds 25-30

SOLIDS: [average, mixed]

% By Weight 51 ± 2%

% By Volume 39 ± 2%

COVERAGE: [average, mixed]

Theoretical at 1.5 mil DFT 417 sq ft/gal

REQUIRED FILM THICKNESS:

ASTM D1005 Minimum Dried Film 1.5-2.5 mil (38-64 μ)

ASTM D4414 Minimum Wet Film 3.8-6.4 mil (97-163μ)

ASTM D523 GLOSS:

@ 60° 90+

@ 20° 80-85

ASTM D3363 PENCIL HARDNESS:

2-3H Pass

ASTM D5402 MEK RUBS:

20 Double Pass

ASTM D2794 IMPACT RESISTANCE:

60 inlb forward, 40 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° <3% loss

1000 hours @ 60° <5% 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, 500 cycles, 1 kg load < 100 mg loss

ASTM D522 FLEXIBILITY:

180° bend, 1/8" mandrel Pass

ASTM D3170 CHIP RESISTANCE:

Rating N/A

ASTM D2485 DRY HEAT RESISTANCE:

200° F Pass 24 hr

WET HEAT RESISTANCE:

180° F Non-immersion Pass 24 hr

ASTM D2243 WATER-BORNE FREEZE THAW:

3 cycles Pass

Properties listed above correspond to formula for gloss, white product and may vary by gloss level and/or color. 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.



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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)
- *seal coat or DI final rinse recommended

APPLICABLE SUBSTRATES: [when properly prepared]

- ferrous or non ferrous
- primed galvanized
- primed aluminum
- concrete

RECOMMENDED PRIMERS:

- 965P TriKote W
- 283P309 Aquapoxy Primer

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:

Ratio: [Part A : Part B]
 By Weight [50G700] 43.00 : 1.00
 By Volume 43.00 : 1.00

Sweat-in Time: none

ASTM D2196 Pot Life: [valid for qtys of 1 gallon or more]

| 50° F | 65° F | 77° F | 85° F |
|-------|-------|-------|-------|
| 5 hrs | 5 hrs | 5 hrs | 3 hrs |

APPLICATION METHODS:

TriAqua W can be applied by HVLP or air assist airless. For other application methods, please contact your Triangle Coatings representative.

HVLP:

Fluid Tip and Needle:030 - .045"
 Fluid Pressure: 10-15 psi
 Air Cap Pressure: 5-8 psi

Air Assist Airless:

Fluid Tip:013 - .015"
 Fluid Pressure: 800-1,200 psi
 Air Cap Pressure 8-10 psi

Airless: no

Brush or Roller: limited

THINNING: water

CLEANUP: water

Clean tools while TriAqua W is still wet.

HEALTH & SAFETY PRECAUTIONS

WARNING:

LIQUID CONTACT WITH EYE AND SKIN CAUSES IRRITATION. DO NOT INGEST. Avoid contact with eye and skin. Wash hands thoroughly after using and before eating and smoking. Keep container closed when not in use. If spillage occurs, absorb and dispose of according to local regulations.

Contains:

- N-Methyl Pyrrolidinone, CAS#872-50-4
- Polyfunctional Aziridine, CAS#64265-57-2
- Waterbase Defoamer, CAS#104-76-7
- Ammonium Hydroxide, CAS#1336-21-6

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 a chemical known to the State of California to cause cancer, 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 Non Regulated Material
 Required Label Not Required
 Required Marking Not Required

IMDG PACKAGING: Not Regulated

IMDG STOWAGE: Not Regulated

UNIFORM FIRE CODE: [CFR 29] Non Combustible

STORAGE TEMPERATURE: 120° F max

SHELF LIFE: [warranted] 1 YEAR

HMIS® RATINGS: H - 1; F - 0; R - 0; PP - H

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