



# PRODUCT INFORMATION

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DATE: MAY 2017

EMERGENCY - MARTRON 704-289-1934  
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REF. # MFC-001531

## MARTRON TRIBLACK 500 SEALER

Post Treatment for Trivalent Black Chromate Conversion Coatings

### Section 1: PRODUCT DESCRIPTION and FEATURES

**Martron Triblack 500 Sealer** is a unique aqueous coating and sealant specifically formulated to produce a clear, corrosion resistant topcoat on electrodeposited metallic coatings.

**Martron Triblack 500 Sealer** has been specifically designed to enhance the corrosion resistance of trivalent black chromate conversion coatings on electrodeposited zinc.

- Does not contain chrome
- Completely water soluble
- Produces a dark, thin, hard and adherent coating
- Non-foaming
- Achieve enhanced corrosion protection with one coat
- Applied via dip spin or dip drain methods
- Provides excellent resistance to solvents, auto fluids, and oils
- Forms insulating barrier between dissimilar metals where bimetallic corrosion is possible

### Section 2: SAFETY PRECAUTIONS

Always read and understand the Safety Data Sheet (SDS) for any chemical product prior to using the product to ensure familiarity with the methods of safe handling and health hazards associated with **Martron Triblack 500 Sealer**.

### Section 3: MAKE UP and MAINTENANCE OF MARTRON TRIBLACK 500 SEALER

#### Equipment:

Tanks and any ancillary equipment should be constructed of high-density polypropylene or Koroseal lined steel or stainless-steel tanks. Ensure adequate ventilation is provided.

#### Solution Make Up:

	Optimum	Range
Martron Triblack 500 Sealer	28% (vol)	25 – 30% (vol)

#### Make Up Procedures:

1. Fill the tank approximately 50% of the final operating volume with water.
2. With continuous mixing, add the required amount of **Martron Triblack 500 Sealer**.
3. Fill tank to final operating volume with clean water.
4. Stir to mix uniformly

**Operating Conditions:**

	Optimum	Range
Cure Temperature	250°F	180 - 250°F
Cure Time		5 – 10 min.

**Operating Notes:**

**Martron Triblack 500 Sealer** should be dried and cured at metal temperatures of 250°F to maximize the corrosion resistance of the coating. Coatings cured at this temperature will produce coatings which will achieve 500 hours of neutral salt spray to red rust.

However, drying at lower temperatures of 120 – 150°F will still produce coatings which will substantially increase the corrosion resistance of conventionally plated and chromated substrates.

**Process Control:**

Solution maintenance is a function of drag out and soil contamination, and varies by application. Solution concentration is determined by wet chemical analysis.

**Analytical Method:****Equipment Required:**

- 50.0 ml pipet
- 250 ml Erlenmeyer flask
- 25 or 50 ml buret with stand

**Reagents Required:**

- Phenolphthalein Indicator Solution
- 1.0 N Sulfuric or Hydrochloric Acid solution

**Procedure:**

- Pipet a 50.0 ml sample of the working solution into a 250 ml Erlenmeyer flask.
- Add 4 or 5 drops of Phenolphthalein Indicator solution.
- Titrate with 1.0 N Acid solution from a pink to a colorless endpoint.
- Calculation:

$$(\% \text{ vol}) \text{ Martron Triblack 500 Sealer} = \text{ml of 1.0 N Acid} \times 0.58$$

## Section 4: WASTE TREATMENT

Consult appropriate Federal, State, and local regulatory agencies to ascertain proper disposal procedures. Do not discharge into waterways or sewer systems. Disposal will depend on the nature of waste material.

## Section 5: STORAGE

Avoid freezing **Martron Triblack 500 Sealer**. Store the **Martron Triblack 500 Sealer** in an appropriate area with compatible materials. All chemicals should be stored in compliance with all applicable federal, state or local requirements.

## Section 6: NON-WARRANTY and DISCLAIMER

The data contained in this bulletin is believed by **Martron Inc.** to be true, accurate and complete. Since the final methods of use of this product are in the hands of the customer, and beyond **Martron Inc.'s** control, **Martron Inc.** cannot guarantee that the customer will obtain any specific result. Accordingly, **Martron Inc.** does not assume any responsibility for the use of this product by the customer, the results obtained, nor the infringement of any patents of third parties.