



# PRODUCT INFORMATION

MARTRON INC.® PO BOX 309, MONROE, NC 28111 PH: (704) 289-1934 FAX: (704) 283-7400

DATE: APRIL 5, 2011

EMERGENCY: MARTRON - 704-289-1934  
CHEMTREC - 800-424-9300

REF. # MFC-001547

## MARTRON 5090-25 SEALER

**Martron 5090-25 Sealer** is a revolutionary, thin-uniform film topcoat. Parts processed in **Martron 5090-25 Sealer** actually bead-up and repel humidity and salt spray mist to form a water-repellent barrier that provides superior corrosion protection.

**Martron 5090-25 Sealer** provides tremendous corrosion protection. See data on page 2.

**Martron 5090-25 Sealer** is used as a final rinse, so there is no additional equipment required.

**Martron 5090-25 Sealer** operates at room temperature to 100°F (37°C).

**Martron 5090-25 Sealer** has very low viscosity and produces very thin coatings making it suitable for both rack and barrel operations. \*

*\*Martron 5090-25 Sealer reduces adhesion for paint, powder and e-coat, and reduces electric conductivity.*

### SECTION 1: OPERATING PARAMETERS

	<u>RANGE</u>	<u>OPTIMUM</u>
<b>Martron 5090-25 Sealer</b> Concentration	5% to 15% by volume	10% by volume
Dip Time	10 to 40 seconds	20 seconds
Temperature	70° to 100°F (21° - 37°C)	80°F (26°C)
pH	10.5 to 12.0	11.0

### SECTION 2: MARTRON 5090-25 SEALER ANALYTICAL PROCEDURES

#### Percent Solids Method

##### Procedure

1. Record the weight of an empty beaker of 100mls or greater capacity.
2. Using a graduated cylinder add 50mls of the **Martron 5090-25 Sealer** working solution.
3. Heat solution to 110°C (230°F) until all water is evaporated.
4. Allow beaker to cool.
5. Record the weight of the beaker containing the dried ZCP.
6. Subtract initial recorded weight of beaker (#1) from final weight (#5).
7. Refer to chart for concentration.

**Martron 5090-25 Sealer Percent Solids Test**

	<b>50mls</b>
<b>30% Martron 5090-25 Sealer</b>	<b>6.6g</b>
<b>25% Martron 5090-25 Sealer</b>	<b>5.5g</b>
<b>20% Martron 5090-25 Sealer</b>	<b>4.4g</b>
<b>15% Martron 5090-25 Sealer</b>	<b>3.3g</b>
<b>10% Martron 5090-25 Sealer</b>	<b>2.2g</b>
<b>5% Martron 5090-25 Sealer</b>	<b>1.1g</b>

**Titration Method****Procedure**

1. Take 5mls of working **Martron 5090-25 Sealer** solution and add to 50mls of water in beaker.
2. Add a few drops of Phenolphthalein indicator.
3. Titrate pink solution with 0.1N HCl to colorless endpoint.
4. Percent ZCP= ml of 0.1N HCl x 0.708

**Curing of Martron 5090-25 Sealer Film Prior to Salt Spray Testing**

For optimum corrosion protection, the **Martron 5090-25 Sealer** film on plated parts should cure or age at ambient temperatures for 24-48 hours before salt spray testing.

**SECTION 3: EQUIPMENT****Tanks**

Polypropylene, PVC, carbon steel and stainless-steel tanks may be used.

**Heat Supply**

Electric - Plain steel immersion heater. Quartz heaters are not recommended

Steam - Mild steel heating coils.

**SECTION 4: HANDLING and SAFETY****CAUTION!**

**Martron 5090-25 Sealer** contain alkaline ingredients which are corrosive to skin and eyes. Protective clothing such as impervious gloves, aprons, boots and chemical goggles should be worn when handling this material. In case of accidental contact, flush immediately with fresh water. Remove contaminated clothing and wash before wearing again. For eye contact, flush with fresh water for 15 minutes and seek medical attention immediately. Avoid breathing mists and vapor.

**FREEZABILITY:**

As with most chemical products, it is preferable that freezing be avoided. However, if freezing should occur during transportation or storage, directions for handling the products covered in this technical data sheet are as follows:

If **Martron 5090-25 Sealer** freezes, simply allow the container to completely thaw and bring to room temperature of 70° - 75°F/21° - 24°C. Thoroughly mix to bring back to original condition.

**SECTION 5: NON-WARRANTY**

The data in this bulletin is believed by **Martron Inc.** to be accurate, true, and complete. Since, however, final methods of use of this product are in the hands of the customer and beyond our control, we cannot guarantee that the customer will obtain the results described in this bulletin, nor can we assure any responsibility of the use of this product by the customer in any process which may infringe the patents of third parties.