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TRIVECTA® SEALER 351

High Performance Sealer for Passivated
Zinc and Zinc-Alloy Electroplate
TECHNICAL DATA

10-07-14

TRIVECTA® SEALER 351

TRIVECTA® SEALER 351	is an organic sealer designed to enhance the appearance and corrosion protection of trivalent black passivated zinc and zinc alloy deposits.
TRIVECTA® SEALER 351	provides extended salt spray resistance for a variety of zinc and zinc alloy passivates. Can be applied over clear, blue, and iridescent passivates.
TRIVECTA® SEALER 351	is non-hazardous, non-flammable and dries quickly with or without the presence of heat.
TRIVECTA® SEALER 351	dries hard without tack and does not leave drip marks.

SOLUTION MAKEUP

	<u>Range</u>	<u>Optimum</u>
TRIVECTA SEALER 351	25-50% by volume	40%
pH *** (do not allow pH to fall below 8.8)	8.8- 10.0	9.2
Immersion Time	20-90 seconds	45 seconds

SOLUTION MAINTENANCE

1. **Replenishment** - should be based on analysis presented below to maintain desired concentration.
2. **pH** - the pH of the sealer can change due to drag in of rinse water. The pH should be checked every 2-3 hours of operation after the first make-up to determine how the rinse water is affecting it, then twice daily thereafter. **Acidic water that gets dragged into the sealer may lower the pH enough to cause precipitation, therefore make sure the pH does not drop below operating level or the solution will form precipitate and gel.** Use ammonium hydroxide to adjust the pH up in frequent intervals to prevent the formation of any precipitation or gel.

ANALYTICAL PROCEDURE

Procedure

1. Weigh a small aluminum or glass weigh boat (Record weight).
2. Pipette 10 ml of the working solution into the weigh boat.
3. Place the Weigh boat in a 125-130 degrees Celsius oven for 1.5 to 2 hours until dried completely.
4. Remove the weigh boat. Cool and re-weigh the weigh boat (Record weight).
5. Calculate % Working Solution

$(\text{Weight of dried Solution and weigh boat} - \text{Weight of Weigh Boat}) \times 31.25 = \% \text{ Trivecta Sealer 351}$

HANDLING AND SAFETY

CAUTION: Trivecta Sealer 351 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 Trivecta Sealer 351 freezes, simply allow the container to completely thaw and bring to room temperature of 70-75F/ 21-24C. Thoroughly mix to bring back to original condition.

NON-WARRANTY

The data contained in this bulletin is believed by Columbia Chemical Corp. 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 assume responsibility of the use of this product by the customer in any process which may infringe the patents of third parties.