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Certified Company

SMG CoateX

A Chemistry For Performance

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ANTI REX

ANTI REX is a anti tarnish component. The process is simple dipping of the substrate in the bath of ANTI REX at room temperature. And rinse out the extra material in a dryer at the temperature of 80 Degree for 10 Minutes. The application of this material gives a remarkable stand against the Salt Spray Test. It is a perfect water based anti corrosive material especially designed for metal electroplated material.



ANTI REX is water based product manufactured with **ROHS standards**. It eco-friendly coatings containing no hazardous chemicals (Cr-free). This product is a commonly use for plated jewelry like silver, gold , rose gold etc.

USES

It is used as sealing agent having non hazardous process prevalent for getting bench mark Salt Spray Resistance. Commonly use for plating substrates like silver plating, gold plating, rose gold plating or any other metal plating substrates.

SOLUTION CHARACTERISTIC

1. Color & odor: colorless & odorless.
2. Mixing ratio- **1% to 5% ANTI REX** (as per trials) of the total bath volume. Stir the solution gently.
3. Coating method: Dip and spin.
4. Drying: 80° / 10 Minutes
5. RPM for the spinner – 600 to 800.
6. Solids ratio : Undiluted solution :20~25%
7. Film thickness : 1µm or less
8. Specific gravity : 1.15±0.05
9. Viscosity CPS (20 Degree C) : 20 Max
10. Dipping period – 30 Seconds.
11. PH- 7 to 9.
12. Storage duration : From the month of manufacture 12 months (Sealed Condition)
13. Normal working at room temperature. In case for some more better results warm the bath solution at the temperature of 30° to 40°.
14. After Dipping in the bath do not rinse the substrate in water. Directly put the substrates in the Dryer or say spinner.

APPLICATION FEATURES:-

- This material is very cost effective. The processional methods reduce its costs.
- VOC quality of this material makes it operators friendly. It contains no heavy metal. That means free from all metal composition. This specific quality gives an extra edge in export clearance to the implicated products.
- As the final performance is dry transparent film formation, so different colors cannot be desired.
- In this product there is no need for post washing treatment.

COATING SPECIFICATION

• **Precautions :-**

At most care taken to maintain the PH around 7 to 9. Avoid the contamination from the silver tank or any other oil substance or acid solution in the tank of ANTI REX. Thorough cleaning process must be ensured before bath preparation.

1. Solution Preparation: - Mixing Ratio – 1 % to 5% ANTI REX (as per trials) of the total volume of the bath.

After mixing give it 5 minutes stirring. Some bubbles may generate, but give the bath time so that the bath gets saturated. The PH of water must be around 7 to 8. Avoid acidic conditions in the bath.

2. Coating Methods

- Prewashing is very essential. Ensure that the coating substrate must be cleaned from oil, greasing, or any other contamination. For this get pre washing for at least 3 to 4 fresh hot alkaline water washing.
- Give the Dipping to the substrate in the ANTI REX bath for at least 30 seconds.
- Allow the drainage of the extra material over to the bath. Put the substrate in a spinner with 600 to 800 RPM.

3. Curing Method- you can put the substance in oven at 80° C for 10 minutes. Only *after 7 days the substrate is suitable to be performed any test.*

4. *There is no need for post washing. It must be avoided.*

• **For maintaining the bath**

- Mark the scale of the fresh solution tank.
- Keep the working sheet of your productions, as daily worked out. For output results.
- As the need arise to top up the bath. Make a fresh solution bath in a separate container and add to the total bath. Bath making must be done as prescribed as above.
- Maintain the PH of the bath around 9 to 7.
- The temperature of solution is 30 – 40° C.
- It is being suggested to make small bath and discard the bath daily after use or production. For the silver jewelry it is the best use way to get desired results.
- But in case if any contamination is observed or any oil marks are observed over the bath solution, then it must be replaced with new bath.
- The bath must be kept in the proper ventilated area and dust free environment. Idle temperature for the working area must not more than 35 Degree.
- In general cases of manufacturing it is being suggested to make small bath of the ANTI REX & replace the bath daily. As we know all that all plating process are acidic. So, it contaminates the ANTI REX bath easily.

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