



ElectroChem Technologies India Private Limited

ECT EcoCoat 555 – Feature Benefit Analysis:

- New economical, user friendly & environment friendly pre-treatment process for multi metals based on Trivalent Chrome
- Can be used for EG, CRS, HDG and Aluminium, thereby eliminating need for separate lines for different metals
- Creates a visible layer for easier identification
- Produces uniform, compact Nano size coating
- Simple process to operate, reducing the need for extensive laboratory analysis
- Offers excellent corrosion resistance and adhesion
- Hazard free non phosphate coating, hence effluent treatment is simplified and less needed
- Technology is based on environment friendly Cr^{3+}
- No flash rusting after long line stoppage, reducing need for rework
- Does not contain Hydroxyl Amines or Sulphates, which requires complex effluent treatment
- No demand for COD and BOD
- A simple single component system, therefore easy to handle and user friendly
- Works at low temperature in the range of 25-35C, therefore saving on energy cost
- Meets the current legislation and regulations, such as RoHS, WEEE, ELV
- Minimal generation of sludge (approx. 1/10th of standard zinc phosphating)-less load on disposal
- Can be an in situ fill up for Iron Phosphate with passivation or Zinc Phosphate System, with tanks to spare because of lesser number of process stages involved
- Will call for an efficient Deionised water rinse before ECT Eco Coat 555 process and final rinse with conductivity < 50 μs for optimum results
- **Recommended Process Sequence:**

1. Alkaline Degreasing
2. Water Rinse
3. Deionised Water Rinse
4. ECT EcoCoat 555 Process
5. Deionised Water Rinse

- Suitable for powder coating and liquid painting lines, as a better pre-treatment process
- NSS Test results are comparable with Zinc Phosphating and Iron Phosphating with passivation
- Process chemical cost is mainly due to drag out.

*. If the advantages referred above are considered, **ECT EcoCoat 555** process is much more economical compared to Iron Phosphating with passivation, Zinc Phosphating process and to the conventional Chromating processes.*

For further information please mail to info@electrochemtechnologies.com