PROTOCOAT Y - 510

SEALER FOR IMPROVED CORROSION RESISTANCE

PROTOCOAT Y - 510 is used for applying transparent water based lacquer coatings on various metallic deposits. The composition has 35% solid content. PROTOCOAT Y - 510 is water soluble and is especially designed for providing a transparent coating on chromate passivated zinc deposit to improve the service life of the plated components to a remarkable extent. The clear coating of PROTOCOAT Y - 510 can also be used to improve the weather resistance on copper and its alloys, nickel deposits, blackened and phosphatised coatings.

OPERATING CONDITIONS

Concentration : 20 – 50 % by volume
Temperature : Room
Immersion Time : 20 - 60 seconds
PH : 8.5 - 9.0
Drying Temperature : 60 - 80 °C

SOLUTION MAKE UP

Fill up the make up tank with clean water to half its volume. Add the required quantity of PROTOCOAT Y – 510 and stir to make an homogenous solution.

OPERATION

The dilution of PROTOCOAT Y - 510 in the ratio of 20 to 50 % by volume in water provides the proper coating characteristics for most applications. A solution having 40 – 50 % by volume of PROTOCOAT Y - 510 will give the maximum corrosion resistance for applications where a lesser protection is sufficient a solution of 10 – 20 % v/v can be used.

It is advisable to introduce wet components in to PROTOCOAT Y - 510 working solution. However, work should be rinsed well after pickling, blackening or cleaning to remove any acidic or alkaline material before immersing in PROTOCOAT Y 510 solution. Acidic or alkaline materials left on the surface of the parts will reduce the corrosion resistance of the coating.

An operating temperature of 20 to 30° is recommended and maintain a uniform temperature throughout the operating solution.

To achieve optimum corrosion protection the parts should be dried in a drying oven or in case of small parts in a centrifugal drier (minimum temp. 50). The drying temperature of chromate parts should not exceed 60 – 80 °. When drying in centrifugal dryer, the revolution per minutes should be 40 – 70 in order to avoid excessive throw off of the PROTOCOAT Y - 510 coating.

EQUIPMENT :

Stainless steel, PVC or polypropylene tanks can be used.

CONTROL :

To avoid precipitation of solid components the pH value of PROTOCOAT Y -510 has to be maintained between 8.0 - 8.5 by adding chemically pure ammonium hydroxide.

EFFLUENT TREATMENT :

http://www.rikochemicals.com
TECHNICAL DATA

PROTOCOAT Y – 510 solution contain small quantities of hexavalent chromium compounds. After adjusting the pH value to 2.5 with diluted sulphuric acid the precipitated material is filtered off. The filter residue can be burnt in a suitable installation. The hexavalent chromium compounds present in the filtrate is reduced to trivalent chrome by adding sodium Bisulphite and the pH value is adjusted with caustic soda solution to 9.0 before discharging into sewage system.

NOTE:

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