PLATING PRODUCTS IND PVT LTD

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Technical Data Sheet

PP 9800H

Product Code PP 9800H

Product Description:

PP 9800H is a high-build, non-yellowing, polyurethane electrophoretic resin system. It is designed to provide the highest reflectivity and flow properties whilst offering the ultimate in performance. PP 9800H also has the ability to conform to complex shapes such as jewellery items. The exceptional appearance of PP 9800H coupled with its unparalleled resistance properties makes it the ideal choice for both enhancement and protection in the most demanding applications such as door hardware.

PP 9800H has been developed to provide the following performance characteristics (when cured at 160C for 30 minutes metal temperature).

- In excess of 6000 acetone double rubs.
- Over 4 cycles perspiration resistance (per ANSI A156).
- 4-5H pencil hardness.
- 200 – 1000hrs Neutral salt spray resistance (B117-11 ASTM) dependant on substrate and pre-treatment.

Main Process Benefits

- **Cures from 130°C (metal temperature)**
- **Complete non-yellowing even at temperatures up to 180°C.**
- **Superior Chemical resistance**
- **Excellent UV stability**
- **Good emulsion stability**
- **Excellent film clarity**
- **Low electrolytic gassing ensuring easy rinsing.**
- **Low tack deposited film.**
- **Exceptional gloss.**
- **High throwing power.**
- **Extremely user friendly.**

Product Characteristics:
High viscosity liquid
Single component form

Processing Equipment:
Standard cathodic electro-lacquering process including closed loop ultrafiltration is recommended. Use only pleated membrane particle filters on coating bath (1 micron nominal rated is normal, but at very low thickness, 0.5 micron nominal may be required).

Bath Conditions:

Solids: 8 - 12% recommended..

Operating MEQ/100 40 – 55

Conductivity- (microSiemens/cm) 400 – 700mS

Temperature: 23 – 28C

Deposition voltage/time 30 – 80 volts for up to 2 minutes for required thickness.

Curing:
Practical cure response is between 130 and 180C with an optimum at 180C for 30 minutes metal temperature to achieve maximum chemical resistance at 20 microns.

Note:
Performance variation is more significant at low thickness.
Accordingly the user should establish if the cure/thickness system is consistent with the application's performance requirements.

Covering Power

One Kilogram of PP 9800H will cover 500 square metres per micron (assuming 100% efficiency using an optimized ultrafiltrate recovery system).

For example: Coating thickness required 10 microns
Area covered by 1Kg is 500÷10=40 square metres

Manufacturers & Importers of : Plating Chemicals and Equipments
PLATING PRODUCTS INC.