



JINHU COLOR POWDER COATING CO.LTD

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TECHNICAL DATA SHEET

DURABLE TRANSPARENT POLYESTER POWDER COATING

(FH-TP Series)

INTRODUCTION

FH-TP Series is a thermoset powder coating with transparent finish, based on saturated polyester resins specially selected for exterior use. It is formulated to give properties of excellent clarity and flow-out besides outstanding resistance to ultra-violet light and atmospheric aging.

FH-TP provides properties of scratching and scuffing resistance to polished or plated metallic articles, serves a protective and decorative function when applied as topcoat over a metallic or antique base coat.

GLOSS AND COLOR RANGE

- Gloss levels: > 90%
- No full color range is available.

APPLICATION SCHEDULE

- Applied by electrostatic spraying gun that can provide negative tension of 60-80 kV.
- Curing schedule :10 minutes at 200°C (metal temperature)
- Optimal film thickness : 60 -70 um

POWDER PROPERTIES

- Specific gravity : 1.20 - 1.40 (depend on colors)
 - Particle size distribution(Laser Particle size analyser) :Less than 5% above 100 um
50 – 65% above 32 um :
- Average particle size : 35- 45um

COATING PROPERTIES

The following are typical properties determined on 0.8 mm gauge degreased zinc phosphated steel .

- Film thickness (ISO 2178) : 60 - 70 μm
- Gloss (ISO 2813, 60°) : >90%
- Adhesion (ISO 2409) : GT= 0
- Pencil hardness(ASTM D3363) : H – 2H
- Direct and reverse impact (ASTM D2794) : > 50kg.cm



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- Salt spray Resistance (ASTM B117, 1000hrs)
(Maximum undercutting ,1 mm): No blistering
- Humidity Resistance (ASTM D2247,800 hrs): No blistering or loss of adhesion
- Accelerated Weathering (ASTM G53-88)
(1000 hrs QUV test) : Excellent gloss retention,negligible chalking

STORAGE

- Under dry conditions ,good ventilation at a temperature not exceeding 25 C,humidity < 60%.
- Storage period recommended should not exceed 6 months,in case exceeding 6 months without affecting their free flowing properties, the powder will still have optimal characteristics.
- Should be protected from excessive heat,humidity,water and contamination with foreign materials such as powder, dust, dirt, etc.
- Any leftover powder should be kept in an appropriate area that is cool and dry. Do not expose to the air too long as the powder properties may deteriorate with the moisture.