



# JINHU COLOR POWDER COATING CO.LTD

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## TECHNICAL DATA SHEET

### METALLIC FINISH POWDER COATING

( FH-MP Series )

#### INTRODUCTION

FH-MP series is metallic finish powder coatings with highly decorative finishes available in any of chemistry types e.g. epoxy, polyester and epoxy-polyester. To preserve the decorative appearance of polyester-based metallic finishes for outdoor use, a clear topcoat is highly recommended.

Bonded (FH-MP-B) and dry blending (FH-MP-D) metallic powder have very different properties during application .Both of them are optional according to your requirement .

Bonded Metallic Powder (FH-MP-B)	Dry Blending Metallic Powder (FH-MP-D)
Base powder and metallic pigments does not be divided	Base powder and metallic pigments can be divided
Can use after reclaimed	Can not use after reclaimed
Reclaim to virgin powder ration be kept as low as possible	Tends to separate from the power during application
High Metallic Effect	Low Metallic Effect
A little bit expensive	Cheaper than Bonded Metallic Powder
No defects on a coated film	Defects(spit, lump etc.) on a coated film
Rejection ration Below 5%	Rejection ration 30~40%
Metallic Powder had been combined with base powder	Base powder and metallic powder have been detached

#### GLOSS AND COLOR RANGE

- Gloss levels range from matt to high gloss depending on the chemistry system.
- Smooth, flat metallics or sparkling metallics are available.
- Colors is matched upon request , no full color range is available.

#### APPLICATION SCHEDULE

- Applied by electrostatic spraying gun that can provide negative tension of 60-80 kV.
- Curing schedule : 180-200°C /10-15 minutes depending on the powder chemistry system.
- Optimal film thickness : 60 -90 um

The metallic finish obtained depends on the coating thickness. Excessively thin or thick films will not give a satisfactory finish.



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## SUBSTRATES AND PRE-TREATMENT

Applied to the following substrates after the appropriate cleaning and conversion coating.

- Ferrous metals(cold rolled steel, cast iron etc.): Iron or zinc phosphatation
- Zinc surfaces(galvanized steel, zinc alloy) : Chromatation or zinc phosphatation
- Aluminum alloys : Chromatation

## STORAGE

- Should be stored under dry conditions with good ventilation at a temperature not exceeding 30 C.
- 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.