

## TECHNICAL DATA SHEET

### DURABLE POLYESTER POWDER COATING

( FH-GP Series )

#### INTRODUCTION

FH-GP Series is a thermoset powder coating based on saturated polyester resins specially selected for exterior use. It is formulated to give properties of good flow-out and satin or glossy finish. Its outstanding resistance to ultra-violet light and atmospheric aging make it highly decorative and durable in outdoor environment, It is widely used for outdoor furniture, architectural hardware, air-conditioners, bicycle frames, garage doors and signboards etc .

#### GLOSS AND COLOR RANGE

Gloss levels range from 10- 99% and above

A wide range colors are available ,certain color is subject to the technical approval .

#### 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 ) or by customer's requirement

Optimal film thickness : 60 - 80 um

90-130um for texture powder coating

100-300um for hammer texture powder coating

#### POWDER PROPERTIES

Hydroxyl : less than 10%

Specific gravity : 1.2 - 1.5 (depend on colors)

Particle size distribution(Laser Particle size analyser) :Less than 5% above 100 um

Average particle size : 35- 45um

50 - 65% above 32 um

#### COATING PROPERTIES

The following are typical properties determined on 0.8 mm gauge degreased galvanised steel

Film thickness (ISO 2178) : 60 - 80 um

Flow out : Good

Gloss (ISO 2813, 60°) : >10%

Adhesion (ISO 2409) : GT= 0

Pencil hardness(ASTM D3363 ) : H - 2H

Direct impact(ASTM D2794) : > 50kg.cm for smooth & texture

> 30kg.cm for hammer texture

Technical department

