





FF6 MATT EPOXY-POLYESTER POWDER COATING PRIMER

INTRODUCTION OXYPLAST FF6 is a thermosetting powder coating based on epoxy and polyester resins. It is formulated to give high-build film thickness with excellent flow-out. This makes it suitable for use as a primer underneath a polyester top coat. GLOSS AND COLOUR Gloss levels: 5-10% at 60°. A full colour range is available; however whites and RANGE very light shades are more sensitive to overbake yellowing. APPLICATIONS Include home and office furniture, audio equipment, lamp covers, computer hardware, ceiling panels, partitioning, etc. **APPLICATION** May be applied by electrostatic spraying using classic devices which can provide a SCHEDULE negative tension of 60 - 80kV. The powder is cured in a suitable convection or infra-red oven. Curing: Medium cure 10 mins at 200°C (metal temperature) Optimal film thickness: 60 - 80µm. SUBSTRATES AND May be applied to the following substrates after the appropriate cleaning and PRE-TREATMENT conversion coating: **Ferrous Metals** Iron or zinc phosphatation (cold-rolled steel, cast iron, etc.) **Zinc Surfaces** Chromatation or zinc phosphatation (galvanised steel, zinc alloy) Aluminium Alloys Chromatation STORAGE At temperatures not exceeding 30°C and under dry conditions, FF6 powders may be stored for up to 6 months without affecting their free-flowing properties. The coating thus obtained will still have optimal characteristics. **PROPERTIES OF THE** Melting Range (Kofler) 80 - 104°C POWDER Specific Gravity (DIN 55990/3) 1.40 - 1.75 (depending on colour) Particle Size Distribution 0% % above 100 µm % above 32 µm 50 - 60%

In accordance with OXYPLAST policy of product development, this specification is subject to change without notice.



PROPERTIES OF THE COATING

a. Physical and Mechanical

The following are properties typical of FF6 determined on 0.8mm gauge degreased galvanised steel:

Film Thickness	60 - 80µm
Gloss (ASTM D523,60°)	5 - 10%
Flow-out	Excellent
Adhesion (DIN 53151 – 2mm spacing)	GT = 0
Pencil hardness (ASTM D3363)	2H – 3H
Buchholz hardness (DIN 53153)	111 - 125
Sclerometre Hardness	600 - 700gms
Conical mandrel (ASTM D522)	< 10mm
Direct impact (ASTM D2794 – Ø0.625 in. ball)	> 20kg.cm
Reverse impact (ASTM D2794 – Ø0.625in. ball)	> 5kg.cm
Erichsen cupping (DIN 53156)	> 3mm
Heat resistance, 30 mins at 200°C	Yellowing

b. Salt-Spray Resistance

According to ASTM B117-73 on,

Chromated Aluminium, 2000 hours	No blistering or loss of adhesion
Zinc Phosphated Steel, 1000 hours	3-6mm undercutting
Iron Phosphated Steel, 1000 hours	6-10mm undercutting

c. Chemical Resistance

FF6 is resistant to some common inorganic acids, bases and salts, organic acids and solvents.

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