



OXYHIN SDN. BHD. (393471-X)

HQ : LOT 1, JALAN 13/3, 46200 PETALING JAYA, SELANGOR DARUL EHSAN, MALAYSIA.
TEL: 03-79565599, 79586636 FAX: 03-79565232, 79565799
E-MAIL: oxyhin@po.jaring.my, oxyhin@streamyx.com

BR : 968, JLN. PERUSAHAAN, KWS. PERUSAHAAN PERAI, 13600 PERAI, PENANG, MALAYSIA.
TEL: 04-3971233, 3971488 FAX: 04-3901266
E-MAIL: oxyhinpg@po.jaring.my, oxyhinpg@streamyx.com



TECHNICAL DATA SHEET

FF8 MATT EPOXY - POLYESTER POWDER COATING

OXYPLAST FF8 is a thermosetting powder coating based on epoxy and polyester resins. It is formulated to give a matt finish having good flow out, overbake yellowing resistance and mechanical properties. The outstanding decorative and protective properties of FF8 are utilized in a wide range of indoor applications.

APPLICATION

Include home and office furniture, computer hardware, ceiling panels, switchboards etc.

APPLICATION SCHEDULE

May be applied by electrostatic spraying using classic devices which can provide a negative tension of 60 - 80 kV. The powder is cured in a suitable convection or infra-red oven.

Curing : 10 mins at 180°C

Optimum film thickness : 60 - 80 µm

SUBSTRATE AND PRE-TREATMENT

In order to obtain optimal anti corrosion properties, it is advised to apply a chemical pretreatment prior to powder coating application.

| | |
|---|--|
| Ferrous metals (cold-rolled steel, cast iron etc.) | : Iron or zinc phosphatation |
| Zinc surfaces (galvanised steel, zinc alloy) | : Chromatisation or zinc phosphatation |
| Aluminium alloys | : Chromatisation |

STORAGE

At temperatures $\leq 25^{\circ}\text{C}$ dry condition and humidity $< 60\%$, FF8 powders may be stored for up to 6 months without affecting their free - flowing properties. The coating thus obtained will still have optimal characteristics.



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PROPERTIES OF THE POWDER

| | |
|--|---------------|
| Melting range (Kofler) | : 70 - 105° C |
| Specific gravity (DIN 55990/3) | : 1.40 – 1.75 |
| Particle size distribution (Laser Particle Size Analyser) | |
| % above 100 µm | : Less than 5 |
| % above 32 µm | : 50 - 65 |
| Average particle size, µm | : 35 - 45 |

PROPERTIES OF THE COATING

a. Physical and Mechanical

The following are properties typical of FF8 determined on 0.5 mm gauge degreased galvanised steel :

| | |
|---|-------------------------------|
| Film thickness | : 60 - 80 µm |
| Gloss (ASTM D523, 60°) | : 30 ± 5 % |
| Flow out | : very good |
| Adhesion (DIN 53151 - 2 mm spacing) | : GT = 0 |
| Pencil hardness (ASTM D3363-Staedtler Lumograph) | : H |
| Buchholz hardness (DIN 53153) | : 91 - 111 |
| Conical mandrel (ASTM D522) | : No cracking at 4mm diameter |
| Direct impact (ASTM D2794 - 0.625 in. diameter ball) | : 25kg.cm |
| Reverse impact (ASTM D2794 - 0.625 in. diameter ball) | : 25kg.cm |
| Heat resistance, 30 mins at 180° C | : good |

b. Salt Spray Resistance

According to ASTM B 117-73 on,

Chromated aluminium, 1000 hrs: no blistering or loss of adhesion

Zinc phosphated steel, 1000 hrs: 5 mm undercutting

Iron phosphated steel, 500 hrs : 10 mm undercutting

c. Chemical Resistance

FF8 is resistant to some common inorganic acids, bases and salts, organic acids and solvents.

All the information given in this Data Sheet is the results of our research work and experience. It is given in good faith and with every belief in its accuracy but cannot be considered as a formal warranty. In accordance with OXYPLAST policy of product development, this specification is subject to change without notice.