



# General Information Sheet Enclosure Coating Process

## Pretreatment

This is a chromate conversion for the treatment of aluminium and aluminium alloys, producing a surface finish with a high corrosion resistance value and excellent paint bonding properties. In addition the chromic film has a very low electrical resistance so that the process can be used on parts for electrical equipment with negligible effect on earth bonding. Surface finishes may vary from colourless to a deep bronze.

## Polyester P9010

P9010 powder coating is applied by an electrostatic spraying process. The dry powder film is deposited by conventional Corona discharge equipment and held by the molecular structure of the powder. The coated component is then submitted to the heating oven which melts the dry powder causing it to flow, followed by final curing to produce a hard durable finish. One of the main aims of the surface coat industry is to exclude solvents completely, powder coatings offer the latest advances in this technology. The main advantage over wet paint systems is that single application of powder produces a tough, cohesive, pollution free coating, which is superior to the multi-coat wet system.

## Properties

Corrosion Resistance	Salt spray test 2.5% solution for 1000 hours
Impact Resistance	45 joules
Film Thickness	60 - 80 microns
Operating Temp.	Up to 120°C
Cure Temperature	Dependant upon mass but guide 200°C for 20 minutes
Scratch Test	3kg
All tests in accordance with BS3900	