POLYESTER POWDER COATINGS

ADVANTAGES OF DRY PAINT

Powder materials and applications technology have added great value to the metal finishing industry. They can produce a quality finish that rivals that of liquid coatings, while offering superior surface properties.

POLYESTER - Powder coatings are a family of rugged thermosetting enamels for a wide range of EPOXY Powder Coatings. However, POLYESTER powders are designed to give significantly better resistance to chalking and colour change for exterior exposure and better resistance to colour change from aging.

END USERS - POLYESTER Powder coatings are especially suitable: (1) where multiple coat solvent based systems may be replaced by a single powder coat; (2) as a replacement for electroplating; (3) to achieve extreme ruggedness; (4) as a replacement for porcelain enamels or (5) where pollution regulations preclude solvent-based coatings.

AN ENVIRONMENTAL ISSUE - Powder coatings offer better process economics over wet paint. Lower energy costs and the elimination of solvent emissions make it far easier to comply with the even more stringent environmental regulations. First, there is no need to use energy for spray booths and oven ventilation. Secondly, material utilization efficiencies are in the 95% range because overspray is captured and recycled not like wet systems where it is wasted causing possible hazards while handling sludge or solvent material.

COATING PERFORMANCE - On an equivalent thickness basis POLYESTER Powder coatings are comparable to solvent-based acrylics and polyesters widely used in the metalworking trade. For example, as a single-coat on light gauge, phosphiated cold rolled steel they offer:

Hardness, good chip resistance
Good resistance to chalking and colour change
Good chemical and stain resistance

In addition, abrasion and chemical resistance are excellent. We believe the properties of POLYESTER are comparable to or better than the best acrylic powders on the market.

CSA AND UL APPROVALS

All our N4X enclosures have met and surpassed the requirements for an N4X rating by CSA, UL, and the NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION.

For such an approval, enclosures must undergo stringent laboratory testing.. Enclosures are subjected to a 200 hour salt spray test of 65 gallons (426) litres per minute with results of pitting no worse than that of a #304 stainless steel enclosure tested under the same conditions.

NOTE OF CAUTION: N4X corrosion tests are supplied for 200 hours. Testing is done using salt and no other chemicals. The proper selection of enclosure type to meet environmental conditions is the responsibility of the purchaser.

Ralston Metal Products Limited cannot be held responsible for the wrong enclosure type selection since environmental conditions are beyond our control.