Paint Specifications

STANDARD ANODIC ACRYLIC E-COAT PAINT

Castings are thoroughly cleaned of machining fluids. Parts are washed in a 6-stage wash system consisting of:

1) 4% caustic soda  
2) 2% caustic soda  
3) Water rinse  
4) Iron phosphate coating  
5) Water rinse  
6) De-ionized water rinse

Critical turns and bores are carefully masked. The parts are then submerged in an anodic electrocoat paint bath for 3 minutes. The bath has a negative charge that attracts to the positively charged parts. The charge of the bath is controlled at a specified voltage to obtain a uniform film thickness of 1.0 to 1.3 mils on all surfaces. The painted part is oven cured in 400°F for 40 minutes.

OPTIONAL EPOXY COATING

For improved chemical and corrosion resistance, an optional epoxy coating can be applied to the assembled pumps over the standard paint. The unit is thoroughly cleaned of all assembly lubricants, and is spray painted with 2 coats of epoxy primer, one part resin and one part activator, at 5 to 10 mils thick. The first coat is dried for 2 hours and the second coat cures for 24 hours before shipping in order to adhere top to bottom coats.

The epoxy coating achieves its properties through a chemical reaction between the resin and activator. This causes the polymer coating to set into a rigid crosslinked molecular structure, which provides excellent chemical resistance to acids, alkalies, oils, alcohols, esthers and hydrocarbons and excellent abrasion, corrosion and stain resistance.

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