

Functional Surface Treatment Part 2 (Self-deposition Coating System)

Tatsuya SUZUKI*

Abstract

Self-deposition coating is a technique in which a resin coating film of several 10s of micrometers is deposited on a metal surface by immersing a metal material in a water-soluble coating material. We have been researching and developing self-deposition coating systems for over 30 years and have accumulated market results by changing the resin in the paint and improving post-coating to improve the coating performance. We have developed self-deposition coating systems that can be used not only on iron but also on aluminum or copper material. In addition, we have been able to develop an epoxy resin-type self-deposition coating with excellent insulating properties and heat resistance, and we anticipate the application of this technology to electronic components in the future.

*General Manager Parker Surface Technology Aisa Pacific Co., Ltd.