

149. AN EMPIRICAL STUDY OF EFFECT OF DRY FILM THICKNESS ON CORROSION BEHAVIOR OF HSLA IRS-M-41) STEEL

Sankar S 1, Ganesh P 2

1 P G student, Department of Production Technology, Madras Institute of Technology, Chennai, Tamilnadu, India. E_mail : sansun_kavin@rediffmail.com

2 Assistant Professor and Guide, Department of Production Technology, Madras Institute of Technology, Chennai, Tamilnadu, India.

Rail coach body which is made of High Strength Low Alloy Steels (IRS –M41) is highly vulnerable to corrosion. Periodic overhauling of coaches is carried out at Corrosion repair unit of Loco works in Southern Railway. Mitigate the corrosion of coaches is a challenging task every year. At present, Red oxide zinc chromate primer of 25 microns is applied. Then two coat of synthetic enamel of DFT 20 micron is applied after drying of primer. This paper discusses how to mitigate the corrosion in railway coaches by varying the Dry Film thickness of epoxy paint as well as Poly-Urethane paint by Salt Spray Test. Keywords – Dry film Thickness, High Strength Low Alloy Steel, Epoxy, Poly-Urethane.

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