2) **Protective coating**

Much interests are given to Hot dip aluminum coating on iron and steel The researches on this subject have been done in universities and other laboratories. Many factories are now planning to manufacture aluminized steel wire and sheets. A few factory produce several finished products. The corrosion resistance of hot dip aluminum coating is far superior to that of galvanizing especially in sulfurous atmosphere such as in chemical or metallurgical industries, on sea side, in acid water and hot water. Moreover it resists to high temperature oxidation. Aluminizing of steel structure was early done by the Eiko Almar Co.. In future a great deal of galvanized products will be replaced by aluminized products.

The durability of paint coating on steel has been remarkably improved, which was one of the activity of the Metal Finishing Society organized in 1949.

The Coating Society was organized in 1956 and has taken charge in the research of metallizing and other spray coatings with plastic and ceramic materials. The operating procedures of metallizing for rust prevention, oxidation resistance at high temperature and repair of worn out machine parts, were standardized by the Society. Many kinds of corrosion inhibitors are produced and marketed such as Ibid, Tekitol, Res-Cor, Profilmin and V.P.I.. They are effectively used for acid pickling, protection of industrial plant from corrsion, cleaning of metals or package.

3) **Preventive measures**

Cathodic protection is now widely applied to the steel structures. Sheet piles and water gates in many harbours have been protected by anodic metals or external D. C. sources.

For the stray current corrosion of underground gas and water pipe or lead sheathed cable, the Electrolytic Corrosion Committees have been established in Tokyo, Osaka and Nagoya and the damages by electrolytic corrosion have been rapidly decreased year by year.

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