

THERMAL SPRAY COATINGS



Thermal metal spray coatings have an established commercial track record in the corrosion protection field. The application process involves melting of wire (zinc or aluminium) or powder through specialist equipment and then, with the use of compressed air, applying the molten metal onto a suitably prepared surface. Arc Spray and Gas Flame Spray are the two main types of wire application used today.



ARC SPRAYING

A pair of wires is electrically charged, and an arc is struck across the tips when they are brought together through a pistol. Compressed air is blown across the arc to atomise and propel the automatically-fed metal wire particles onto the work piece. This method produces superior adhesion of the coating.

GAS FLAME SPRAYING

For the Gas Flame method of application, the continuously moving wire passes through a pistol and is melted by a conical jet of burning gas (propane or acetylene mixed with oxygen). The molten wire atomises and is propelled onto the substrate.

