

APPLICATIONS FOR ANTI-CORROSION METALLIZING

Thermal spraying or metal spraying is a coating process where a wide range of metals or ceramics can be sprayed onto the surface of another material. Metal spraying has many advantages for lots of industries, as well as being a great alternative to hot dip galvanising. Galvanising is a hot process whereas metal spraying is a cold process. The advantages of metal spraying include: no distortion due to heat, no size limit, total control of coating thickness, can be carried out on site, waste can be collected and reused, low energy consumption etc..

BRIDGES AND STRUCTURAL STEELWORK

Metal spraying is proven to be the best protection from corrosion and can provide protection for up to 20 years to first maintenance.

The Burj Al Arab hotel in Dubai is one of the most famous steel structures that's been metal sprayed. In total, 10.000m² of steelwork was arc sprayed. The aluminium coating will protect the Burj Al Arab from corrosion up to 20 years even in the harsh, coastal environment in which it is situated.

WIND TURBINES

Atmospheric corrosion causes damage to wind turbines. It's for this reason many manufacturers specify thermal sprayed zinc or zinc/aluminium alloys as a preferable method of corrosion protection. Thermal sprayed coatings - using the arc spray process - give a resilient finish, which is less susceptible to damage than many paint coatings.

PETRO-CHEMICAL AND OIL INDUSTRY

In the petro-chemical industry, accelerated corrosion can occur under wet insulation (CUI). By protecting against CUI, companies can move towards inspection-free and maintenance-free piping systems and significantly reduce maintenance costs. Metal spraying is the ideal solution for the protection of refinery and process plant vessels, tanks and steel fabrications. Oil industry pipes, risers and structures are exposed to harsh elements and oil and gas platform



structures benefit from the application of thermal sprayed aluminium. Metal spraying is done using the arc or flame spray process that protects against corrosion for in excess of 20 years in the harshest of environments.

WELDED TUBES

Tubes are produced by Electrical Resistance Welding (ERW) of the longitudinal seam. During the welding process, external coating around the weld area is destroyed. Unless the ERW seam is protected, this area will corrode. The ideal way to protect it is to metal spray. This corrosion resistant tube has numerous uses, including domestic and garden furniture, car seat frames, parking barriers, balustrades and even car exhaust pipes.

WHAT WE OFFER?

- ✓ Full spectre of anticorrosion and other wires for thermal spraying packed on coils or drums
- ✓ Highest quality industrial equipment for metal spraying
- ✓ Large stock and prompt deliveries
- ✓ Knowledge and years of experience in thermal spraying

For more on advanced materials and technologies contact

VORAX

experts in wear resistant technologies

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