

Flame spraying is the original method of thermal spraying and has been used across a wide range of industries for over 100 years.

The flame spraying process utilises an oxy-acetylene flame to apply the thermal coating. The heat from the flame melts the coating material and compressed air propels it onto the product being sprayed. The flame spraying process is known as a 'cold' process as the substrate temperature can be kept low throughout.

Example flame spray coatings include the application of abrasion resistant coatings such as Nickel Graphite, Nickel Chrome and Nickel Aluminium, or pure metals such as Zinc, Chromium, Molybdenum and Aluminium.

BENEFITS

Flame spraying is suitable surface treatment where:

- Component geometry or the working environment requires manual thermal spraying, offering the easiest working conditions
- Large and complex areas (structures)
- Cost effectiveness is a key priority

TYPICAL APPLICATIONS

- Corrosion protection; structures and components
- Reclamation of worn shafts, particularly of bearing areas with materials such as stainless steel or bronze alloys