



Nicol & Andrew (MSPE) Limited
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Nicol & Andrew (MSPE) Limited is the Coating Division of the Nicol & Andrew Group – leading international in-situ marine and industrial engineering specialists



The Coating Division is located in a purpose built facility, which was opened in 1999, in Govan, Glasgow

We are Scotland's leading specialists in precision finish metal coating and offer a wide range of surface treatments for applications which involve aggressive and abrasive environments.



Our customers range from North Sea oilfield operators and other marine operators to food and beverage manufacturers.

We are providers of solutions to industry.....

We offer the following services:



1 **High temperature Plasma and HVOF Spraying** of metal to suit the application requirements – coatings include:

- ⊙ Tungsten/Carbide/Chrome - the most popular Coating - produces a finish which is less porous and more durable than chromium plating
- ⊙ Nickel/Chrome/Boron, Titanium, Aluminium and Teflon – examples of coatings available for specific environments



2 **Grinding and polishing of components** – our capacity is:

Horizontal Length 18ft 5.48m Diameter 3ft 6in 1.07m Internal (min)
 Vertical Height 2ft 11in 0.89m Diameter 4ft 1.22m Internal (min)



3 **Full certification of all coatings and finishes**

4 **We also offer**

- Spraying and finishing on site using mobile plant where equipment cannot be moved
- Nickel, chromium and other electro-plating
- A1 Class welding
- Component manufacture and fabrication

Our workforce of trained engineers operates within a well documented control system which ensures that it delivers finished work to customers' defined requirements.

For further information and if you want to discuss your own requirements please contact our General Manager, Willie Ormsby, at the above address or by telephone on **0141 419 9020** (four lines) or by fax on **0141 427 9974**

Or visit our Web-site at metal-spraying-services.co.uk



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Thermal Spraying Methods and Materials

0141 419 9020 (tel)

0141 427 9974 (fax)

Email: wormsby@namspe.co.uk

****Most popular coatings for aggressive environments**

HIGH TEMPERATURE PLASMA SPRAYING:

Ceramic and Cermet (Metal/Ceramic mix) coatings including:

Ceramics Chrome oxide, Aluminium oxide, Titanium oxide,

Metal Chrome carbide, Tungsten carbide

Thermal barrier coatings such as Zirconium oxide

HVOF (HIGH VELOCITY OXYGEN FUEL):

Powders available including:

****Tungsten carbide/cobalt/chrome (86-10-4) (Diatec 1086)**

****Nickel/chrome/boron alloy (Diatec 2060)**

(or Nickel/chrome/boron with tungsten carbide matrix)

Chrome carbide

Tungsten carbide (various blends)

****Inconel 625 and 718**

Hastelloy, stainless steel, nickel (and almost any commercially available metal)

SPRAY AND FUSE WELDING PROCESS (SELF FLUXING ALLOY POWDER):

****Colmonoy's 4, 5 and 6**

Nickel, Chrome Boron with a Tungsten Carbide Matrix

Note: require heat treatment after application

ELECTRIC ARC SPRAYING (TWIN WIRE):

Most alloys including:

Stainless steels of various types, Carbon steels, Hastelloys and cored wires (various)

Anti-corrosive wires including:

Aluminium, Zinc, Monel, Copper, Aluminium bronze and Phosphor bronze

COMBUSTION SPRAYING (SINGLE WIRE plus POWDER LOW VELOCITY SPRAYING):

Including Molybdenum, Copper, Nickel, Monel, Zinc, Aluminium, Brass

Aluminium Bronze (good for anti-spark and protection against salt water corrosion)

Various Stainless Steels and Nickel Alloys

*We know of and can obtain more than 300 types of metal or ceramic coatings – contact
Willie Ormsby or John Ormsby to discuss your particular needs*



ISO 9001 2000