

# List of Services

## Blasting and Surface Preparation:

- Grit blasting – High and low pressure grit blasting to remove corrosion, coatings and debris. Blasting media's include Chilled Iron, Garnet Olivine, Glass Bead, Plastic and Aluminium Oxide. Our multi-purpose blast booth is 6.5m wide x 6.5m high x 15m long and our non-ferrous grit blast booth is 4m wide x 4.5m high x 2.2m long
- Wet Bead Blasting – Used for stainless and non-ferrous materials, this causes no damage to the material and is great at removing weld stain
- Wet Blasting – Created no dust and can be used on GRP, Wood, Plastic, Glass etc.
- Dry-Ice Blasting – Non abrasive blasting which uses Co2 pellets to remove scale, contaminants, corrosion and coatings leaving no chemical residue. Easily used on/off site and is idyllic in many industries
- Mechanical Preparation – Where grit or water cannot be used needle guns and bristle blasters are great to remove corrosion/coatings and create a profile for coating, there is no noise and is performed by hand making this a popular option for repairs/off-site work

## TSA/TSZ:

- Xiom can offer thermally sprayed aluminium and zinc using arc or flame spray, or automated machine coating on risers. All specifications can be followed for any blasting, thermal spray and sealer coat requirements
- All of our coating applicators are trained by Metallisation and coatings are all overseen by NACE inspectors
- A full coating report is issued upon completion

## Xylan/Xylar/Everslik and Specialist Coatings:

- Xiom are proud to be PPG Whitford approved applicators of Xylan and Xylar
- We can also apply many specialist coatings such as Everlube, Everslik and Powder Coating and Thermosetting coatings, all within customer requirements/adhering to specifications

## Painting and Coatings:

- Xiom have considerable experience in all types of painting and can handle all sizes of parts from small brackets right up to large structures
- Our NORSOK approved applicators work under the supervision of an on-site NACE Level 2 Inspector with the overseeing of a NACE Level 3 Inspector
- We can comply with any specification issued and a full coating report is issued on completion. Our facility has various temperature controlled large paint booths and ovens, promising you an excellent service with the best inspection and certification all completed within a timely manner
- At present, we are the only company in Scotland offering express turnaround which can see the completion of NORSOK coating systems within 24 hours where required, all within manufacturers specifications.
- We can offer Epoxy, Acrylic, Urethane, Polysiloxane, Powder, Anti-Skid, Thermal, Intumescent and many other coatings all by the way of airless, conventional and hand application
- Xiom have experience applying all types of marine and industrial coatings applied for corrosion prevention, anti-wear coatings for pipe and pump internals, chemical resistance coatings for concrete, tank and waterproof bund coatings, composite concrete repair coatings and fast cure waterproof roof membranes.
- Coating procedures can be written up by Xiom and Coating Procedure Tests can be carried out where required
- Client visits, DNV witness and Third Party Inspectors are all welcome to visit during coating as long as pre-agreed with Xiom
- All masking, de-masking, prime only, hatching, non-slip areas, stenciling etc. can be carried out by Xiom provided clear instruction is given

## Laser Cleaning:

- The UK's most powerful laser!
- Laser offers quick and silent cleaning, with no clean up cost and minimal disruption to surrounding areas/parts – perfect for hard to reach areas or where grit/water cannot be used

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- Our high temperature ovens allow for curing and for hydrocarbon bake out where required

## Phosphate:

- We offer zinc and manganese phosphating
- Our tanks can handle capacity up to 10 tonnes of various shaped parts
- Staff are trained by Chemetall in the use of all phosphate chemicals and acids
- We can comply with any pre/post phosphate requirements such as baking and oiling

## Concrete Repair:

- Xiom can travel anywhere in the UK to offer epoxy screed coatings and fast set composite coatings to offer concrete repairs, and also apply chemical resistance top coats

## Decontamination:

- Xiom remove contaminants such as mercury from the parts using environmentally friendly processes
- We have experienced and well-trained in-house technicians who can carry out the work

## Chemical Cleaning/Pickling and Passivation:

- Xiom can offer pickling, passivation and Ferroxy testing by our trained technicians and adhere to client specifications
- Pickling is a pre-passivation process of treating stainless steel and exotic metal parts with an acid solution, typically hydrochloric or sulfuric acid, which can remove oxide scale and heat tint while dissolving steel flecks embedded in the part
- Xiom use an environmentally friendly method of pickling in accordance with ASTM A380 standards
- The passivation process is a method of improving the corrosion resistance of stainless-steel and exotic metal parts by removing ferrous contaminants like free iron from their surface, restoring them to their original corrosion specifications
- A full report is issued upon completion which includes before and after pictures

- Laser cleaning can be used for corrosion and coating removal, weld stain removal, de-contamination, tank and vessel cleaning, soot and carbon deposit removal, mould cleaning, cleaning of gas turbine engine parts, guano removal, mooring chain cleaning prior to NDT, graffiti removal etc
- We can arrange a demo of the laser, or welcome any trial parts to be sent to us if you are keen to see the results. The machines can be used on or off-site and long term hire/purchase can be arranged, including a trained user(s) where required.
- Examples of the laser's capabilities can be viewed at

[https://www.youtube.com/channel/UC\\_uoE-qpVYpyb\\_TVYfup2uQ/videos](https://www.youtube.com/channel/UC_uoE-qpVYpyb_TVYfup2uQ/videos)

## UHP Water Jetting:

- Xiom's Ultra High Pressure water jetting/blasting equipment is a viable alternative to grit blasting which boasts huge advantages such as: no clean up costs, no dust and is environmentally friendly, being key in today's market
- Ultra High Pressure (UHP) water jetting can be used safely for a wide range of applications, which include: coating removal/surface preparation, cleaning and cutting
- Our equipment can remove extreme corrosion, epoxy paint, paint coatings, concrete and much more at high pressures up to 55,000 PSI. Offering various adaptors, the equipment can be fitted to enable cleaning of pipes and risers (internal and external), tank cleaning, steelwork cleaning, deck cleaning, boat hull cleaning, subsea equipment, heat exchanger tube and bundle cleaning etc.
- UHP Water Jetting is quickly becoming the preferred method of surface preparation on offshore gas platforms and petrochemical plants which is why Xiom have well trained staff to operate on site machines, but also cover the option of hiring equipment directly from us.
- Xiom can internally clean to remove rust, scale and corrosion from any length of riser pipe or tubular from 1" to 48" ID to any WJ standard, using our comprehensive range of UHP Water Jetting equipment

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## Ferroxyl Testing:

- Xiom can offer trained technicians to carry out a ferroxyl test on/off site on any stainless steel parts to detect iron contamination, including iron-tool marks, residual-iron salts from pickling solutions, iron dust, iron deposits in welds, embedded iron or iron oxide
- A full report is issued upon completion which includes before and after pictures

## Wind Farm Maintenance:

Xiom have a GWO certified team of technicians which can mobilise in small or large teams to carry out maintenance such as:

- Wind Turbine Blade Repair
- Wind Turbine Cone Repair
- Concrete repair and waterproofing
- Tower coating repair
- Hydraulic flushing and removal/replacement
- NACELLE welding repairs
- Guano removal
- Cleaning

Any other general cleaning, blasting, coating or maintenance work on the sites can also be arranged where required

## Pressure Testing:

- With years of experience in the industry, we offer on-site hydrostatic pressure testing of pipework, spools, vessels, hoses, wellhead equipment etc. using water, air, nitrogen or tank testing submerged using nitrogen up to 60,000 PSI
- Any flushed items can be dried prior to installation by air vacuum or nitrogen purging
- Xiom also provide a full range of pipeline commissioning and de-commissioning services including flooding, cleaning, gauging, pigging, pressure testing, de-watering and drying

## Other Industrial Services:

We like to think of ourselves as problem solvers, and we often are approached by clients to create a solution to an issue they are having so please get in touch if there is anything we may be able to assist with. We offer a range of other services/one off solutions, and can also offer advice prior to workscopes commencing. Some of the other services we offer are:

- Hydraulic Flushing
- Deck Bonding Repair
- Supplying of Trained Personnel
- Induction/Infrared Heating
- Field Joint Coating
- Riser Maintenance
- Composite Wraps
- ATEX Workshop Container Rental
- Acid Dipping
- Valve Repair

Please send any enquiries to [info@xiomscotland.co.uk](mailto:info@xiomscotland.co.uk) or call 01307 461 141

We are based just off the A90, approx. 40 mins south of Aberdeen, in Forfar. Xiom can arrange transport, packing, offer storage and are also happy for any inspections/fittings etc. to take place at our site where required

Address:

14 Orchard Loan, Orchardbank Industrial Estate, Forfar, DD8 1TD