

**BARRIER**

# Industrial Services





# Barrier Industrial Services



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Industrial Services Ltd

Barrier Industrial Services Ltd is responsible for carrying out major contracts in the module construction, petrochemical and civil engineering industries, both within the UK and globally.

Our expertise is second to none, reinforced by proven project management capabilities, maintenance skills and a first-class safety record. An on-going commitment to quality and high-level customer service enables Barrier Limited to remain at the forefront of developments in application techniques and advanced coating technology.

This area of the business established the use of "black box" coating management, giving it capability to handle the largest contracts awarded in this sector. This development has evolved, allowing us to transgress into renewable energy with major wind industry projects, providing protective coatings and specialist access services.

We also provide individual or integrated innovative scaffolding solutions, allowing our customers to choose the level of support and associated project management they require. Offering a full supply and fix service enables us to meet the requirements and challenges of our customers.

# Our Industrial Services

Our diverse range of tailored services allow for reduced interfaces, better co-ordination, single-point responsibility, less disruption, and a reduced project management and trade labour cost.

## Specialist Coatings

As coating technology has advanced, Barrier Limited's application methods have evolved too. Our continued investment in specialist equipment, training, processes and certification has maintained our position as pioneers in applications of high-performance systems.

### Thermal spraying aluminium

Barrier Limited has a large pool of applicators, as the Thermal Spraying Aluminium (TSA) process is slower than traditional paint spraying. This resource proved invaluable when we supported the Nexen 'Buzzard' project, applying 7000m<sup>2</sup> of TSA to the cellar deck within four weeks. Through careful planning, contractors Heerema could continue work on 50% of the under-deck with a gap between us and their operatives. It is this type of diligent approach that results in successful and coherent developments for our clients.

### Flooring and deck systems

Our application of various floor coating systems includes self-levelling, screed, anti-static, non-slip and architectural screeds. These services are offered on general steelworks and concrete floors within the industrial and nuclear industries.

### Glass flake linings

Barrier Limited is an approved applicator for the majority of glass flake coatings. We are experienced in the application of polyesters, vinyl esters and special glass flake polymers to various steel and concrete structures. Products are used extensively in tank lining systems, with multiple grades available for refurbishment work and general maintenance.

### Solvent-free coatings

We offer various solvent and solvent-free coatings including polyurethanes, phenolic, polyesters, epoxies and synthetic-type coatings. Applied by specialised equipment, these coatings are extensively used in tanks, vessels, offshore structures, marine holds, bridges and jetties.

## Pipeline Coatings

Barrier Limited has led the way in coated pipework for the oil industry since the mid-1970s, using many high-tech coatings.

We work with clients in the sector to line pipework, protecting it from the harsh operating conditions of the fluids being moved. We have developed and built our plant to achieve the highest of standards required for internal pipelining. This includes our in-house coating plant which can apply fusion bonded epoxy (FBE) and polyurethane (PU) to externals and carry out linings simultaneously.

**"At the forefront of application techniques and advanced coating technologies."**

### Powder coatings

At our powder coating plant, we have a high-grade 13 metre long oven which can apply industrial coatings to CW6 specification. This oven is able to coat pipe bends and similar assets up to two-metres in diameter. These coatings include FBE, three-layer polypropylene and polyethylene, and various flow-coats.

With our exceptional Line Pipe coating plant, we are able to apply multi-layer FBE to up to 20-inch pipes, a valuable asset to many of our clients.

### Polyurethane coatings

Where FBE and three-layer system applications are not possible, sprayed PU is administered to CW6 standards. Our team is able to do this on site with portable plural pumps, minimising disruption to operations.

### Internal linings

Barrier Limited have innovated a closed-loop full recovery system, developed from an existing pipe mole system for blasting and coating. We recover and recycle the blast abrasive, leaving a clean surface ready for painting. This work can be carried out at our Wallsend facility or in-situ with the portable equipment we have built.

### Tape wrapping

Although tape wrapping is not a widely used system, we understand that it is sometimes necessary and have experience in the field. Utilising equipment developed and built by ourselves, we have successfully and efficiently carried out tape wrapping on several projects.



# Scaffolding & Specialist Access

At Barrier Limited, we are experienced in providing advanced solutions tailored to our clients' needs in all aspects of scaffolding access. This includes conventional tube and fitting, and system scaffolding to provide specialist access.

## Design capabilities

Our project management team offer a design service built on experience and industry know-how. We adhere to the latest procedures and safety legislation, creating a safe working environment for employees and trades on-site. Certified supervisors administer these sites to ensure high-calibre techniques and quality.

## Health, safety and environment

Our intelligent systems provide safe and highly flexible access, support and environmental protection. These efficiencies help reduce costs, site congestion, and downtime to benefit our customers and their budgets.

## Collaborative operations

Together with other Barrier Group divisions, we become a synergy that creates efficient workflows and better problem-solving solutions to support the end client. Scaffolding is supplied as a support service to the other divisions and, with a workforce over 100 'advanced' scaffolders, there are very few projects too large for us to manage.

## Containment

It is often necessary to fully encapsulate a structure for health and safety reasons. Activities performed during maintenance, repairs and construction create dust and debris which can be harmful to the environment and trades on site. Barrier Limited has successfully operated in the harshest of working terrains, ensuring the highest safety standards are achieved and maintained.

## Cradles

Cradles are used where a full scaffold would be prohibitively expensive. In our experience, these are the most cost-effective on large tanks where traditional scaffolding is too slow and costly. This was the case in our coating of a nuclear test plant in Grenoble, France.

## Mobile Access

We have mobile access platforms for work to ships' hulls and offshore wind sites. These platforms can be operated manually or through winches to provide convenient and efficient access.

## Wrapping

Barrier Limited also provides a full supply and fit service, enabling us to meet our customers' requirements and challenges. Our highly trained shrink wrapping team can erect screens, partitions, suspended ceiling covers and tunnels on a diverse range of industrial and construction sites around the UK.



