



- High performance anti-corrosion industrial coating systems

Corrocoat, a global company

Founded in 1975, Corrocoat is a corrosion engineering company and a world leader in the production and application of heavy duty composite coatings.

Corrocoat's in depth knowledge of mechanical and chemical engineering combined with their understanding of polymer technology make Corrocoat unique in the field of corrosion engineering.

Corrocoat provides a total solution from initial design consultation, through to manufacturing and application. The bespoke nature of the service enables the company to respond swiftly and accurately to individual customer requirements.

Through years of relationship building and thousands of successful projects, Corrocoat has earned its place in the market as a company that can be trusted to carry out work right, first time every time.

With international operations in over 30 countries, Corrocoat is truly a global operator and the largest glass flake coating producer in the world.

Corrocoat's extensive overseas network offers a comprehensive service with fully trained personnel and technical support available from the UK Research and Development laboratories if required

- INTERNATIONAL OPERATIONS
- AUSTRALASIAN TERRITORY



Features and benefits

- 01 ▶ Our extensive range of advanced coatings is used for both the repair of existing equipment and protection of new plant and equipment. In many cases we are able to use basic carbon steel and advanced coatings as an alternative to expensive metallurgical solutions.
- 02 ▶ Corrocoat's team of trained application engineers combine chemical and mechanical engineering expertise to assist in obtaining the most cost effective and reliable protection available.
- 03 ▶ The Research and Development division, located in the UK, is constantly assessing new ways to combat corrosion. The division is equipped with the latest advanced testing and analytical equipment, and is staffed by qualified chemists and engineers. The R&D staff are committed to maintaining and improving standards.
- 04 ▶ The improvements in glass flake quality, pioneered by Corrocoat, have allowed for the production of superior grades of industrial coatings. These have been formulated to offer not only high performance, but also excellent application properties. The range of coatings extend from some available for high temperature chemicals to single coat structural steel protection.
- 05 ▶ The coating application is often the time restricting factor during the fabrication process. Due to the rapid cure of most of our products, the cost and time benefits when using Corrocoat materials can be hugely advantageous.
- 06 ▶ Corrocoat's highly skilled work force is available to carry out coating work at our Canning Vale facilities or by our site application team. Many customers find our unique fly in fly out work force more cost effective and efficient than full time, onsite workers.
- 07 ▶ Backed by NACE inspectors our team will ensure that the highest possible quality standards are maintained in strict accordance with our ISO 9001 Quality Management System.
- 08 ▶ We are so confident our coatings will perform in the most arduous conditions we will provide a material and labour warranty on any coating that is applied by Corrocoat's specialist applicators.

To match the permeability of a 1.2mm thick Corrocoat VEF coating you would need to apply a 48mm thick Epoxy coating –how much would that cost?

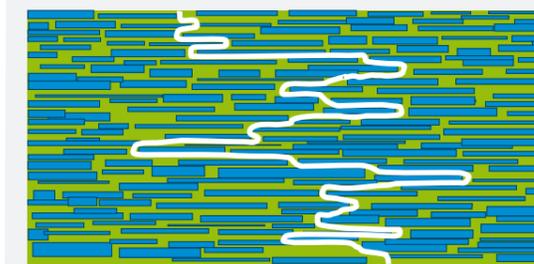


Not all glass flakes are created equal

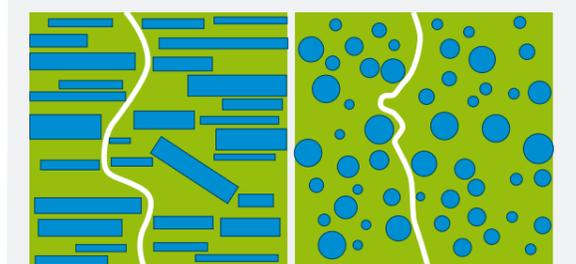
Corrocoat's expertise in glass flake manufacture has resulted in the company becoming the largest and highest quality glass flake producer in the World. This development was pioneered entirely by Corrocoat UK's own Research and Development team.

Corrocoat coatings use glass flake fillers, which are impermeable and significantly increase the diffusion path through the coating. This produces a barrier layer, slowing moisture diffusion and the corrosion potential to an almost non-existent level.

The flakes of glass orientate themselves within the coating film to reduce the passage of moisture vapour. This effect is known as the torturous path. Corrocoat's sister company produces the unique, uniform, and high aspect ratio glass flakes. Substantial coating improvements are achieved by using these flakes rather than the variable and much thicker flakes or beads available in other coatings. The end result is Corrocoat materials achieve better corrosion protection.



▲ Glass flakes made by Corrocoat
3.0 micron thick



▲ Glass flakes by others
3.0 to 20.0 micron thick

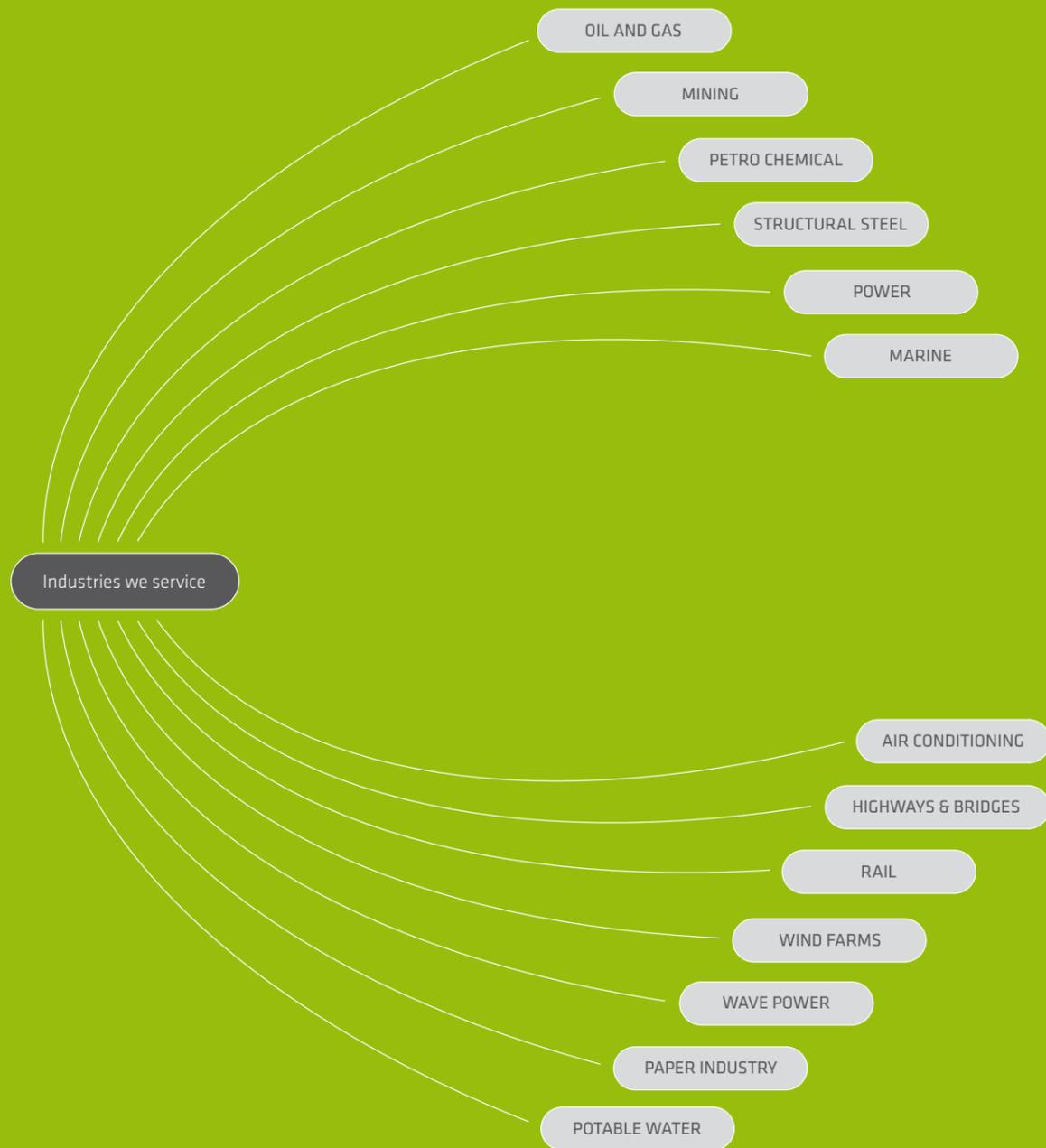
▲ Ceramic Bead Filled

Industries we service

The cost of corrosion affects everybody. In pure monetary terms it is estimated at between 3% and 6% of GDP. This amounts to a world wide figure of \$1409 Billion dollars per annum. Clearly corrosion protection can save much time and money but industrial corrosion causes many other problems.

This includes adverse publicity following corrosion related incidents and loss of production.

Corrocoat has successfully achieved corrosion preventative solutions in a wide range of industries and environments.



Oil and Gas

Corrocoat has experience both on and offshore. Our track record goes back 30 years, to the North Sea and Middle East oil and gas industries. We have numerous case studies, confirming life expectancies of 15 to 20 years in extremely harsh environments.

Corrocoat materials protect pipe work, tanks, plant and equipment from corrosion and they are totally unaffected by Microbial Induced Corrosion (MIC). Refurbishment of existing equipment can often be achieved at a fraction of the cost and time to replace a component. Some areas Corrocoat materials have been used include:

- Multi stage seawater pumps
- Oil/water separators
- Pipework
- Tanks and vessels
- Waterboxes
- End covers
- Filter separators
- Fuel gas scrubbers
- Scrubbing towers
- Seawater holding tanks
- Mud tanks
- Subsea structures and xmas trees
- Decking
- Risers
- Caissons
- Dump lines
- Metering pots
- Splash zones
- Legs



Petro Chemical

Petro Chemical process plants are unique. They require customized solutions to corrosion and chemical attack.

At Corrocoat we actively encourage comparative performance evaluation of different coatings and linings. We believe in achieving the most appropriate, cost effective and long term solution for our customers. Our range of products is suitable for both metallic and concrete substrates.

- Pipework
- Pumps and valves
- Structural steelwork
- Effluent plant
- Heat exchangers
- Waterboxes
- Concrete bunds
- Filters
- Scrubbing towers
- Road tanker barrels
- Stacks
- Ducts
- Agitators



Mining / Resources

Aggressive chemical environments found in mine processing is one area our cutting edge coatings truly come into their own.

We will partner with you to research, engineer, test and recommend the most appropriate coating for your project.

This joint involvement will ensure the best possible solution and provide long term cost savings in maintenance, significantly reducing plant down time.

We have been involved in gold, nickel, alumina, copper, cobalt, uranium, iron ore and mineral sands operations.

- Hot acid tanks
- Neutralisation tanks
- Large tanks
- Pressure vessels
- Pipework
- Launderers
- Floating pontoons
- Dust collectors
- Pumps
- Waterboxes
- Vacuum pumps
- Fans
- Agitators
- Rake arms
- Structural steel



Power

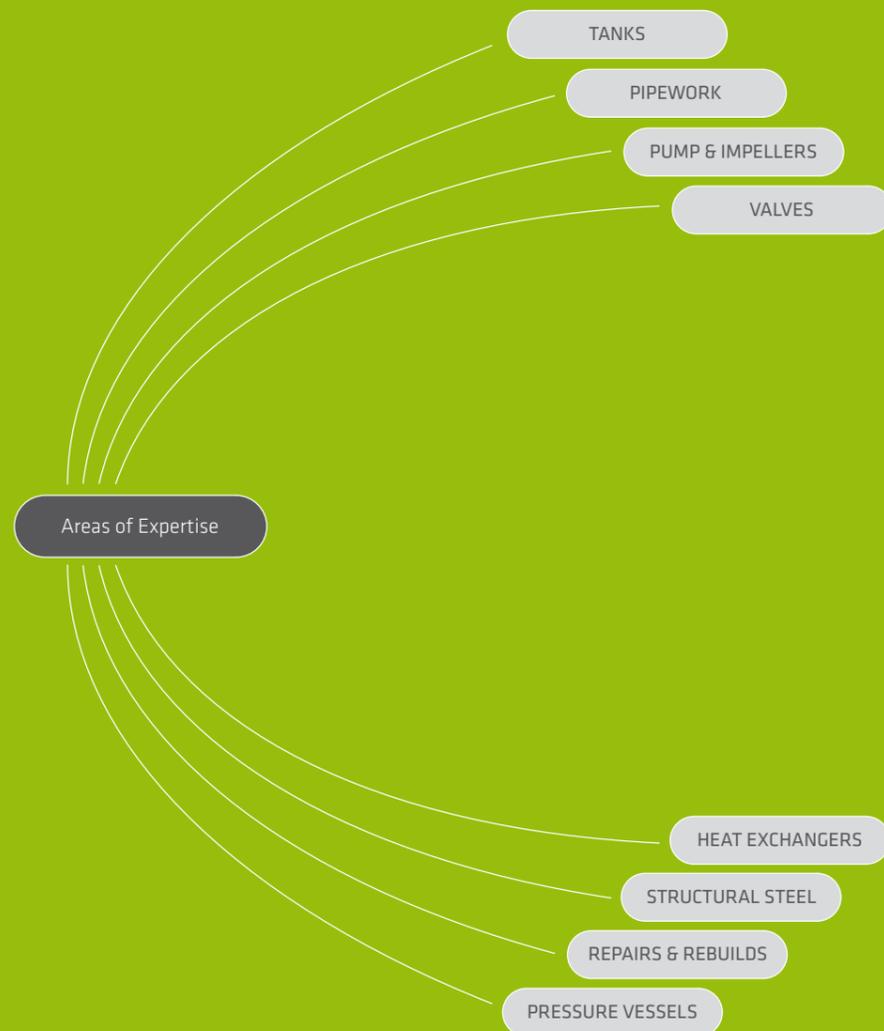
Corrocoat has extensive experience in corrosion protection of equipment and pipe work in hydro electric, thermal, nuclear, wind and wave power generation plants. We have products to not only combat corrosion, but also to improve energy efficiency. An eco friendly Biofoul coating is available for power plants utilizing seawater cooling.

- CW system components
- Pumps
- Pipes & valves
- Neutralization pits
- Chemical bunds
- Drainage gullies
- Ferric sulphate tanks
- Air receiver internals
- Generator casing externals
- FGD equipment.

Specific areas of expertise

Corrocoat has a focused area of expertise and an enviable set of core competencies. These include: corrosion, mechanical and chemical engineering. The manufacture of heavy duty composite coatings. Selection, application and testing of these coatings

Over the years this focus has resulted in the production of high performance, anti-corrosion industrial coating systems for the following plant and equipment:



Warranty

We are so confident our coatings will perform in the most arduous conditions we will provide a materials and labour warranty on any coating that is applied by Corrocoat's specialist applicators. Warranty terms and conditions are provided on a job by job basis, dependent on; the application, substrate, environment, temperatures and processes. Please consult a Corrocoat Applications Engineer for Warranty terms and conditions on your project.

Tanks and Pressure Vessels

Many of Corrocoat's materials can be sprayed and are commonly used for high performance tank linings. The application is undertaken by our expert in-house technicians or available to external specialist trained coating applicators. Corrocoat's high performance materials have a proven track record in protecting large process vessels, pressure vessels, transport

containers, road tankers, above and below ground storage tanks.

Our skilled, on site application teams are fully equipped with the latest technology to ensure even the largest projects are completed on time, on budget and to specification.



Pipework

Our engineering expertise has enabled the development of high quality pipe blasting and pipe coating equipment. Corrocoat linings have often been used to provide long term protection for pipelines thus preventing the need for expensive metallurgical solutions.

We have a range of application techniques to suit any project including pipe spinning, spraying, hand application and flooding. We specialize in both internal linings and external coatings. Our new Heatblocka coating offers personnel protection, energy conservation and corrosion protection.

Pumps and Impellers

Corrocoat is specified by a number of leading pump manufacturers to ensure extended pump and impeller life. A final coat of Corrocoat's Fluigluide system will significantly reduce running costs and increase flow.

We can undertake repairs and rebuilds on pumps that would often be considered redundant. This work can be performed at a fraction of the pump replacement cost and often results in savings of up to 60% of a new pump.



Valves

We regularly coat new and existing valves to improve their life expectancy or to repair severely corroded components. Valves refurbished by Corrocoat achieve excellent cost benefits by eliminating the need for modifications to pipe work layouts. This results in a quick turn around and is significantly cheaper than replacing the valve.

Heat Exchangers

Corrocoat specialises in corrosion protection of heat exchangers. Applying our glass flake coating system to new metallic surfaces offers a substantial increase in heat exchanger life expectancy. We can carry out repairs to components damaged by corrosion either on site or in our workshop. Our advanced anti-corrosion coatings are used extensively on water boxes, tube sheets and end covers.

Structural Steel

Corrocoat coatings are also used to provide long term protection for structural steel. Corrocoat's glass flake coatings have been used to protect pilings, oil rigs, jettys, bridges and many other structures.

The improvements in glass flake quality, pioneered by Corrocoat, have allowed for the production

of single coat systems. One layer of Zipcoat on structural steel can replace the need for multi coat products which is often the time restricting factor during the fabrication process.

Cost and time benefits, when using our single coat systems, can be huge.



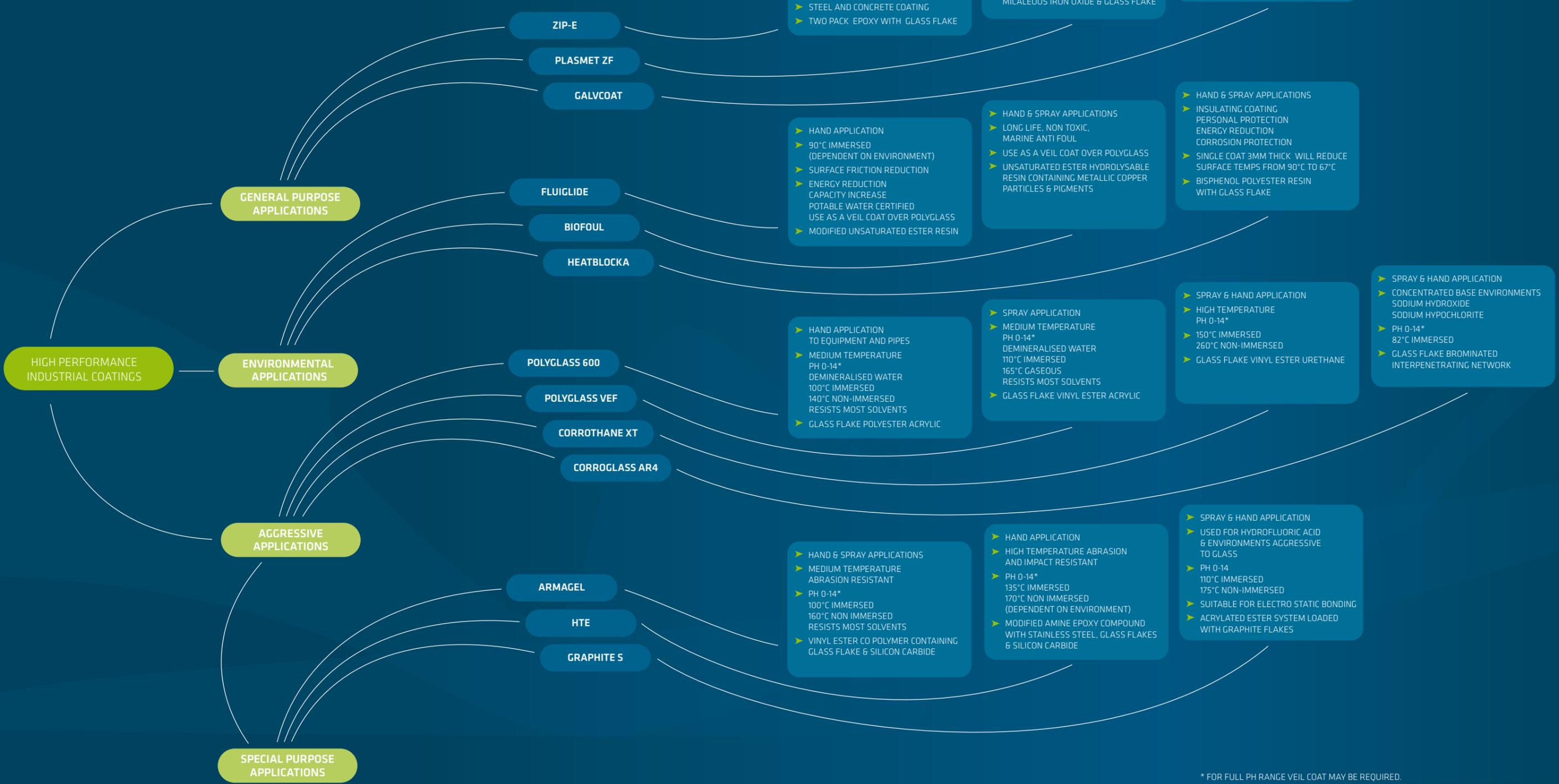
Repairs and Rebuilds

Corrocoat has comprehensive engineering and application facilities allowing severely damaged components to be refurbished. This work can often be achieved without the need for renewing parts and can be carried out at a fraction of the replacement cost. Corrocoat materials are extremely stable and

can be machined to bring the component tolerances back to specification.

Existing Corrocoat linings can be patched and repaired easily on site. This allows the plant to be brought back on line quickly reducing the losses associated with down time.

High performance anti-corrosion industrial coating systems



* FOR FULL PH RANGE VEIL COAT MAY BE REQUIRED. ALWAYS CONFIRM YOUR COATING SELECTION WITH A CORROCOAT APPLICATIONS ENGINEER

➤ **Australia**
Western Australia
Queensland
New South Wales
South Australia
Northern Territory
Tasmania

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➤ **Free call** 1300 728 887