

CORROCOAT

news

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Inside Corrocoat R&D

We take a look at what goes in to our research and development

ACROSS INDUSTRIES

Corrocoat's corrosion protection technology supports critical assets across a diverse range of industries

CASE STUDY

NASH VACUUM PUMP RESTORATION & PROTECTION

What 13 years in service does to a Nash Vacuum Pump Type CL 3000, and how Corrocoat fully restored it

HEATBLOCKA

Combining thermal insulation and corrosion protection

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ACROSS INDUSTRIES

Corrocoat's corrosion protection technology supports critical assets across a diverse range of industries and our 2026 events programme reflects that breadth.

This year, our teams have attended leading events spanning **marine and shipping, energy, hydrogen and carbon capture, renewables, defence and asset management**, including AMPP in Houston, Posidonia, NOF and Asset Management 2026.

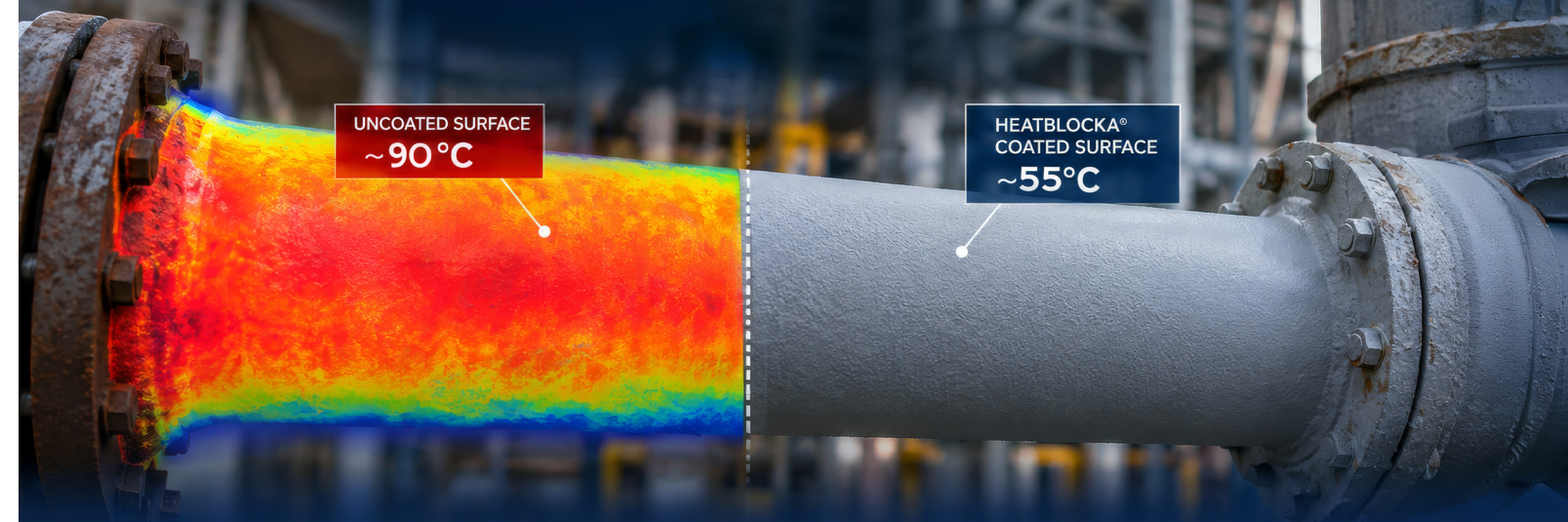
While the operating environments and assets may differ, many of the challenges are shared: corrosion, erosion, chemical attack and the need to extend asset life while reducing maintenance and downtime. Corrocoat's range of high-performance coating systems, combined with decades of application experience, enables us to provide solutions across these varied and demanding environments.

Attending events across such a broad spectrum of industries gives us the opportunity to strengthen relationships with customers and partners, share expertise and better understand the challenges facing both established and emerging markets. It also helps ensure Corrocoat continues to develop opportunities for our global network across an increasingly diverse range of applications.



We're excited to introduce our new Corrocoat brochure, providing an overview of our expertise, coating technologies, key sectors and global capabilities.

Click [here](#) to explore the full brochure.



HEATBLOCKA

Combining thermal insulation and corrosion protection

Where equipment requires both insulation and protection from corrosion, **Heatblocka provides a practical two-in-one solution.**

Heatblocka is a two-pack, cold-cured, high-build insulating coating designed for use on both new and existing equipment. It can be used on transfer lines where insulation is required for process reasons or to help protect personnel against accidental burns, as well as on tankage to help prevent heat build-up, evaporation losses and loss of energy. It can also be used as an under-insulation corrosion barrier while adding to the insulating properties of the system.

Unlike insulation materials that require additional corrosion protection beneath them, Heatblocka combines thermal insulation and corrosion protection within the coating system, providing a practical alternative or addition to conventional insulation solutions.

Putting performance to the test

Heatblocka is one of the products put through its paces by our R&D team, with thermal testing used to demonstrate its insulating performance.

Applied at a thickness of **3 mm**, Heatblocka can reduce the surface temperature of a pipe from approximately **90°C to 67°C**. At **6 mm**, the surface temperature can be reduced further to approximately **55°C**.

This insulating performance, combined with the corrosion protection associated with Corrocoat's glass flake filled coating technology, makes Heatblocka particularly suited to applications where both asset protection and surface temperature reduction are required.

HEATBLOCKA AT A GLANCE

- Thermal insulation and corrosion protection in one coating
- Suitable for **new and existing equipment**
- Applied at **2-6 mm thickness**
- Up to **3 mm can be achieved in a single coat**
- Can be applied by **airless spray, brush or trowel**
- Temperature limits of **100°C immersed and 250°C non-immersed**

INSIDE CORROCOAT R&D

Behind every Corrocoat coating system is a significant amount of research, development and testing. From responding to a specific customer requirement to exploring new technologies and improving existing products, our in-house R&D team plays an important role in ensuring Corrocoat continues to meet the demands of challenging industrial environments.

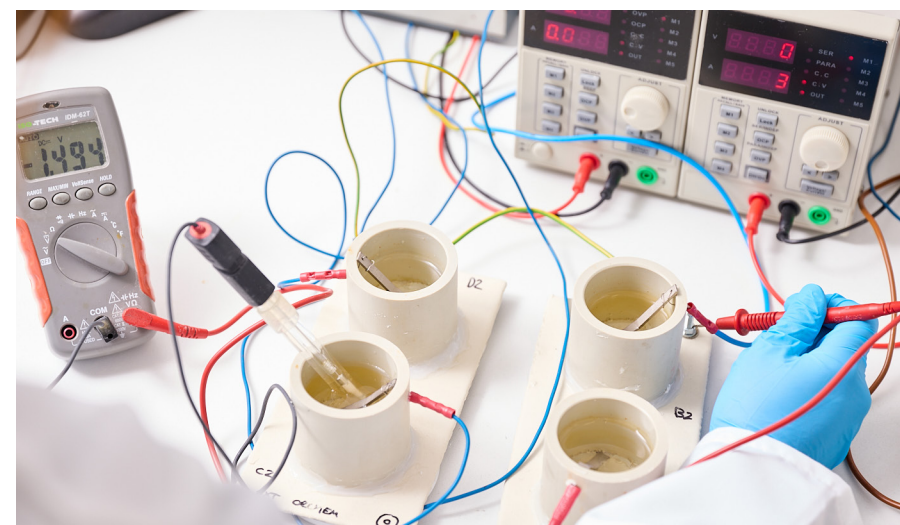
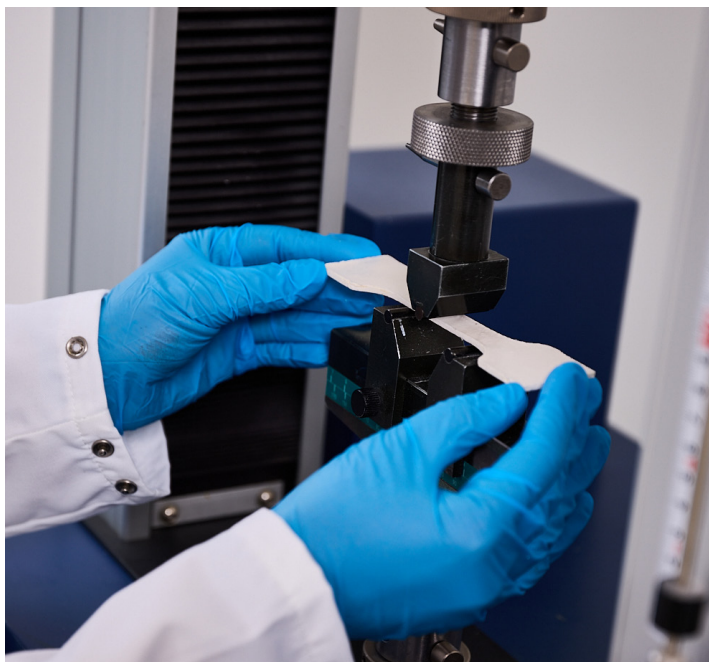
New developments can begin in many different ways. A customer may present a particular performance requirement, new technology or raw materials may become available, or the team may identify an opportunity to improve on an existing solution. Recent projects have ranged from developing a more user-friendly and efficient high-performance tank lining, to exploring coatings for new markets such as cool roofs and improving the flow properties of an existing potable water system.



Putting Performance to the Test

Testing is a fundamental part of the development process. Depending on the intended application, Corrocoat can evaluate properties including adhesion, abrasion resistance, hardness, chemical resistance, moisture vapour transmission, weathering and performance at temperature.

For coatings intended for particularly demanding environments, testing can be extensive. Cold-wall testing, for example, can simulate immersed service at elevated temperatures, while thermal analysis can help establish a coating's glass transition temperature and level of polymerisation. Some corrosion and performance testing can continue for up to six months before the team is satisfied that a development is suitable for its intended environment.



R&D also supports Corrocoat customers and partners around the world with unusual applications and service conditions. Wherever possible, the team recreates the service environment in the laboratory. Where this isn't practical, they can provide technical guidance or prepare test samples for evaluation under actual operating conditions.

Solving Unusual Challenges

Not every R&D project has a straightforward solution. One particularly challenging project involved developing a coating capable of being applied and cured underwater. Recreating realistic underwater application conditions in the laboratory, sourcing suitable raw materials and developing a material that could perform effectively in those conditions all presented significant challenges. The project has involved extensive development, with work continuing to optimise the application method.

Did you know?

One of the more unusual instruments in the Corrocoat laboratory is a Thermesthesiometer – a burn injury measurement instrument designed to simulate the temperature response of a human finger. It allows the team to assess the surface temperature of an insulated coating from the perspective of personnel protection – effectively measuring what someone would experience if they touched a coated hot surface.

CORROCOAT

LONG-TERM CORROSION PROTECTION AND PERFORMANCE RESTORATION OF A NASH VACUUM PUMP CL 3000



The Challenge

A Nash Vacuum Pump Type CL 3000 used by Papertech was returned to PT Corrocoat Indonesia after a reduction in suction performance was identified after 13 years in service.

The pump had originally been refurbished and coated with Corroglass 600 Series in 2013. Following inspection and cleaning in 2026, the protective coating applied to the cover, cone and rotor was largely in good condition. However, wear was identified within the casing eccentric area, where the rotor, process fluid and entrained debris interact.

To restore performance, the project required more than corrosion protection alone. Critical dimensions, internal clearances and operating tolerances needed to be assessed and reinstated to return the pump to optimum operating condition.

The Solution

PT Corrocoat Indonesia carried out a comprehensive refurbishment programme combining specialist engineering services with proven corrosion protection technology.

The scope of work included detailed inspection and dimensional assessment of the pump components, machining to restore geometry, abrasive blast surface preparation and application of the Corroglass 600 Series coating system.

Following coating application, critical clearances were reinstated through precision machining. The rotor was balanced, consumable components including bearings, gaskets and gland packing were replaced, and the pump was reassembled with cone-to-rotor tolerances accurately set.



The Results

The refurbishment successfully restored both corrosion protection and mechanical performance.

Corroglass 600 Series continued to provide protection to wetted and exposed surfaces after more than 13 years of service, while precision engineering works addressed wear within critical operating areas. The combined approach enabled suction performance to be restored and the pump returned to service.

Key Benefits

- Corroglass 600 Series remained largely intact after more than 13 years in service
- Restored suction performance through precision machining and tolerance setting
- Combined corrosion protection and mechanical refurbishment in a single project
- Reinstated critical operating clearances and component geometry
- Extended equipment service life and delayed replacement costs
- Returned the pump to operational service with restored performance

CORROSERVE

INTERNAL AND EXTERNAL CORROSION PROTECTION OF 30-METRE NORTH SEA CAISSON



The Challenge

A 36" diameter caisson and its associated pipework required a robust corrosion protection system ahead of installation on a North Sea platform. With previous coatings applied to similar structures having suffered premature failure, long-term protection in the demanding offshore environment was a key requirement.

Measuring approximately 30 metres in length and weighing around 27 tonnes, the scale of the structure also presented a significant application challenge, with both the internal and external surfaces requiring protection.

Corroserve was selected for the project based on its proven track record in pipe lining and the protection of offshore assets.

The Solution

The caisson was transported to Corroserve's Leeds facility, where a specialist multi-product Corrocoat coating system was specified and applied.

The scope of work included:

- Full internal and external abrasive blast cleaning to ISO 8501-1 Sa 2½
- Application of **Polyglass VEF** internally to a thickness of 1,500 microns using specially developed internal pipe spraying equipment
- Application of **ZF Primer** to the external surfaces
- Application of **Plasmet Zipe E**, a single-coat epoxy glass flake coating

- Final application of **Corrothane AP-1** to provide a colour-retentive, weatherproof gloss finish

The complete system was designed to provide robust, long-term protection against corrosion in the arduous North Sea environment.

The Results

- Successful internal and external protection of the complete 30-metre caisson and associated pipework
- Long-term corrosion protection for demanding offshore service
- Project completed within the client's stringent delivery requirements
- Consistent, durable finish across the structure
- Successful project delivery led to **several repeat contracts from the same customer**

Key Benefits

- Complete internal and external corrosion protection
- Specialist coating system tailored to different operating environments
- Protection of a large-scale **27-tonne offshore asset**
- Reduced risk of premature coating failure
- Proven solution that generated repeat business

FAQs

with **Douglas Lynch** our Technical Expert

Can different Corrocoat systems be combined to address multiple performance challenges within the same application?

“Yes. A good example is the use of Fluiglides E over Corrocoat EB on pump impellers where cavitation and hydraulic efficiency are both considerations.

Cavitation is a hydraulic and operational phenomenon that can cause mechanical damage to components such as pump impellers, and it cannot be eliminated through the application of a protective coating. However, due to the type and size of glassflake and other additives within the coating, Corrocoat EB offers excellent resistance to cavitation damage when applied at thicknesses greater than 2 mm. Even on its own, it can provide long service life in arduous environments where the intensity and amplitude of cavitation can be considered aggressive.”

What is the benefit of applying Fluiglides E over Corrocoat EB in these applications?

“Cavitation typically affects localised areas of an impeller, so a common Corrocoat specification is to apply Fluiglides E over Corrocoat EB.

While Fluiglides E may gradually wear away in areas directly affected by cavitation, it continues to provide efficiency-enhancing benefits across the remaining impeller surface. These benefits can help offset performance losses associated with cavitation and surface degradation and, in some cases, may contribute to an overall positive effect on pump efficiency.”

Don't forget to follow us on LinkedIn for regular updates including on-site photos, case studies, videos, brochures and more.



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