

## AF Industries repair composites, coatings & linings for the oil & gas industry



AF Industries (UPS) offers a proven range of epoxy- polymer based metal repair composites, high-performance coatings, and linings that deliver long-term protection and asset integrity across the Oil and Gas sector. Trusted since 1992, our systems are engineered to perform in the most demanding environments — offshore and onshore — providing superior resistance to erosion, corrosion, chemical attack, and extreme temperature and pressure fluctuations.



## Maximising Asset Life, Minimising Downtime

Our solutions offer a cost-effective alternative to equipment replacement, welding, or intrusive repairs. UPS systems can be applied in situ with minimal disruption, significantly reducing downtime, labour costs, and health and safety risks.

## Process Vessel Protection – Internal & External

UPS's high-temperature internal linings (rated from 60°C to 160°C / 140°F to 320°F) can be spray- or hand-applied, forming an impenetrable barrier against aggressive process media. These linings withstand erosion, chemical attack, steam-out, and explosive decompression, extending corrosion management intervals.

### Key solutions include:

- **UPS 106 HTP HIGH TEMPERATURE PASTE & UPS 227 HTX HIGH TEMPERATURE CERAMIC X** – Ideal for nozzle, flange face, and small bore protection, providing complete isolation from corrosive environments.



## Pipework Repair & Protection

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From thin-wall damage to through-wall defects, UPS's metal repair systems deliver permanent, in-service repairs without hot work.

### **UPS ASME EMERGENCY PIPE REPAIR –**

A high-strength, composite pipe wrap system engineered to ASME PCC-2 standards. It restores structural integrity and is suitable for complex geometries, high service temperatures (up to 150°C / 302°F), and aggressive environments.



## Cold Bonding for Structural Integrity

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UPS's cold bonding technology provides a safe, high-performance alternative to welding, ideal for bonding plates, reinforcing structures, or securing equipment such as supports and pipework — even while in operation. Our pioneering injection bonding technique enables fast, in situ repairs for corroded or degraded assets.

## Splash Zone Repairs

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UPS offers durable, surface-tolerant coatings and composites specifically designed to combat corrosion in splash zones and below the waterline.

### **Key Products:**

- **UPS DURA-COAT 560/561** – Bonds to wet surfaces, cures underwater, and resists corrosion in harsh marine environments—all in a single, solvent-free coat.
- **UPS 250 UWC UNDERWATER CERAMIC** – Provides long-lasting erosion and corrosion resistance in wet, immersed, or offshore conditions.

## Storage Tanks & Secondary Containment Protection

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UPS's fast-curing, solvent-free solutions eliminate the need for hot work when repairing storage tanks or bunds. From leak sealing to base sealing and structural strengthening, our systems ensure compliance and long-term protection.

## Recommended Systems:

- **UPS TANK BASE SEALING SOLUTIONS** – Protects tank bases by allowing trapped moisture to escape while preventing water ingress.
- **UPS 813 EQS EPOXY QUARTZ SCREED** – Ideal for resurfacing secondary containment areas.
- **UPS 405 EPC EPOXY PROTECTIVE COATING / UPS 407 EN EPOXY NOVOLAC** – High-performance chemical-resistant coatings, suitable even at elevated temperatures.



## Carbon Capture Maintenance

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With the growing focus on carbon emissions reduction, UPS supports the integrity of amine stripper columns and other carbon capture systems.

- **UPS 105 EG THISTLEBOND METAL REPAIR PASTE** – Rebuilds steel loss from corrosion.
- **UPS 225 HT HIGH TEMPERATURE CERAMIC / UPS 227 HTX HIGH TEMPERATURE CERAMIC X** – High-temperature coatings selected based on amine type, offering long-term resistance to chemical and thermal attack.

## Support During Decommissioning

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For ageing infrastructure and end-of-life asset management, UPS provides versatile repair and protection solutions to ensure safety and regulatory compliance throughout decommissioning phases.

### Decommissioning Essentials:

- **UPS 105 EG THISTLEBOND METAL REPAIR PASTE / UPS 125 XFP FAST CURING PASTE** – Ideal for rebuilding corroded or eroded metal surfaces and cold plate bonding.
- **UPS 108 WFE WET FIX EPOXY** – Enables underwater repairs where dry application is impractical.





- **UPS 405 EPC-XL EPOXY PROTECTIVE COATING – EXTENDED LIFE –**  
Developed specifically for cold climates like the North Sea.
- **UPS RUBBER REPAIR RANGE –** Flexible solutions for hoses, buoys, and other non-rigid applications.

## Additional Applications in Oil & Gas Operations

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UPS's adaptable, industry-proven solutions are also used for:

- Heat exchangers and separators
- Centrifugal and vacuum pumps
- Fenders and flexible hoses
- Chemical containment systems
- Seawater filtration systems

**UPS solutions are trusted globally by operators, contractors, and engineers across upstream, midstream, and downstream operations. Contact us today to explore how UPS can enhance the safety, reliability, and performance of your critical assets.**

*Contact AF INDUSTRIES today:*

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