CORROCOAT

CORROSIONEERING GROUP

A Sustaining Member of the Institute of Corrosion

Certificate No: FM 20201

Specialist in
anti-corrosion technology
providing coating and engineering solutions to industry worldwide...

profile of the company

ALHUDA الهدى
corrosion treatment لمعالجة الصدا

Advanced Glassflake Technology **CORROCOAT** MATERIALS

POLYGLASS VEF - a two pack cold cured polyester/acrylic co-polymer enhanced with flaked glass

CORROTHANE XT - a three-pack cold cured vinyl ester-urethane polymer alloy with glassflake - till 260°C

CORROGLASS 602 - a two component, high build glassflake vinyl ester lining and repair material

PLASMET WR - a solvent-free, three-pack polyamine cured epoxy high levels of abrasion resistant filler

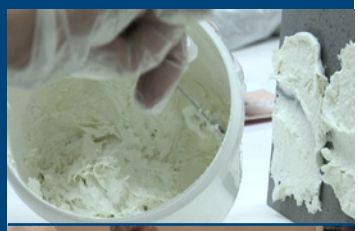
ZIPCOAT - an epoxy glassflake coating, intended for a single coat application

ARMAGEL - an abrasion resistant vinyl ester co-polymer containing glass flake and silicon carbide

BIOFOUL - a three-pack, cold-cured polyester containing metallic (inorganic) copper flakes

GRAPHITE S - acrylated ester loaded with flaked graphite

Materials are increasingly specified as the industry standard.



Long term protection for storage & process **TANKS & VESSELS**

Over the years, materials developed by Corrocoat have been used extensively for the protection of a wide range of tanks and vessels for storage, treatment, process and even road, rail and sea transport applications. As a result the company has developed expertise in the management of coating programmes for tankage and vessels used in environments as diverse as sewage treatment, activated carbon filtration, chemical and hydrocarbon storage and offshore oil processing. In many cases, these coatings have been in continuous service for up to 20 years without requiring further maintenance.

Typical applications include:

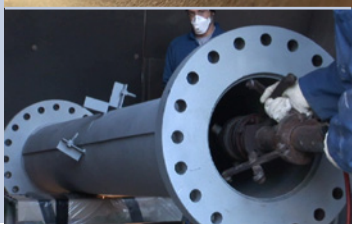
- Acid pickling tanks
- Ballast tanks
- Effluent tanks
- Fresh water tanks
- Galvanisation dipping tanks
- Seawater holding tanks
- Settlement tanks
- Underground fuel storage tanks
- Water treatment tanks
- Deaerator vessels
- Degasser vessels
- Filter vessels
- Process vessels
- Road tanker vessels

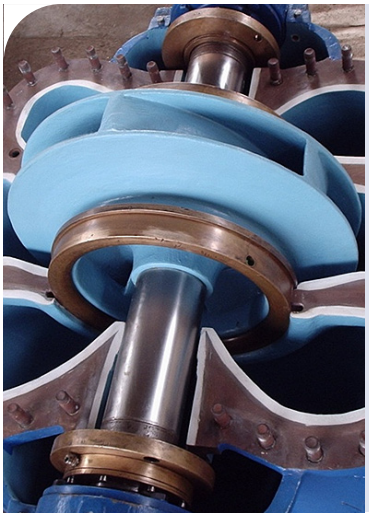
In addition, the company has devised and implemented a unique and robust method for the repair of floors on large flat bottomed tanks, using advanced composite materials, without the need for overplating.

Internal and external protection **PIPEWORK** PROTECTION

Corrocoat branches worldwide are instrumental in the protection of hundreds of kilometres of large and small bore pipework each year, using Corrocoat materials developed specifically for application to pipe internals and externals deployed in even the most arduous conditions.

- Corrocoat provides established solutions for both metallic and concrete substrates, offering protection for new lengths of pipe prior to and during installation as well as refurbishment options for existing pipework.
- The company has focused R&D investment on solving specific problems incurred when coating pipework, achieving correct dry film thickness and homogeneity throughout the length of the pipe spool.
- Corrocoat utilises a range of specialist application techniques, ranging from pipe rolling rigs through to advanced down-pipe blasting and coating equipment, offering high quality finishes combined with fast turnaround and reduced downtime.





The power to protect **PUMP & VALVE** ENGINEERING

The variety in nature of damage sustained by pumping equipment demands a comprehensive understanding of the design and operation of different pumps and systems in order to provide effective refurbishment and protection. Corrocoat offers a comprehensive service for repair, refurbishment and protection, including specialist procedures for:

- Severe corrosion/erosion damage in areas such as volutes, cutwaters and neck rings
- Reprofiling of water passages
- Making good deep pitting and porosity in pump casings
- Coating machined areas such as neck ring joints
- Returning coated components to original tolerances, facilitating the return of good pumping efficiency
- Sophisticated mechanical engineering capabilities including the re-manufacture of impellers and the manufacture of shafts
- Metal stitching and laminating techniques

Corrocoat pioneered the field of R&D into coatings designed to maximise the performance and efficiency of pumping installations with the development of the Fluiglide system, increases in efficiency levels.

Solution for all surface

STRUCTURAL **& CONCRETE**

Corrocoat products and techniques have been used extensively for projects ranging from corrosion protection for newbuild structural steelwork through to turnkey bridge refurbishment schemes, bringing together both coating and engineering skills.

Typical projects include:-
- Solutions to CUI (corrosion under insulation) issues
- Protection against SRB and bacterial attack
- Solutions to accelerated low water corrosion issues (including protection for piling)
- Structural steelwork
- Tank externals
- Pipe and pipe support externals
- Pipe riser externals
- Support steelwork
- Flotation units
- Stairways in aggr. atmosphere

Where concrete is already deteriorating, solutions are available for restoration, including crack injection, re-bar protection and replacement polymers.

Typical coating projects include:
- Concrete pipework
- Flooring
- Bunds
- Tanks
- Masonry

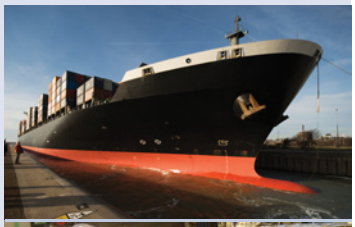
Ship to shore and offshore

OFFSHORE & MARINE

Contact with seawater and a saltladen atmosphere can greatly reduce the life expectancy of equipment operating in this aggressive environment.

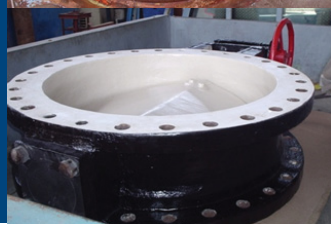
Corrocoat materials are used extensively on and around hulls to protect where corrosion/erosion presents major problems. On high erosion areas such as rudders, 'A' frames and bow thrust tunnels, time intervals before the need for further remedial action have been extended significantly, and the requirement for cathodic protection negated or reduced substantially. In other areas, particularly the wind/water interface, Corrocoat's range of spray applied coatings - sometimes applied as single coats - provide a fast and reliable solution.

Offshore, Corrocoat materials have proved particularly successful for the refurbishment and protection of oil/water separators, splash zones, legs, decks and critical pipework such as fire main risers. Coupled with the experience of Corrocoat's on-site contracting division, the company can provide a comprehensive turnkey solution.



Repair and refurbishment of a wide range of components

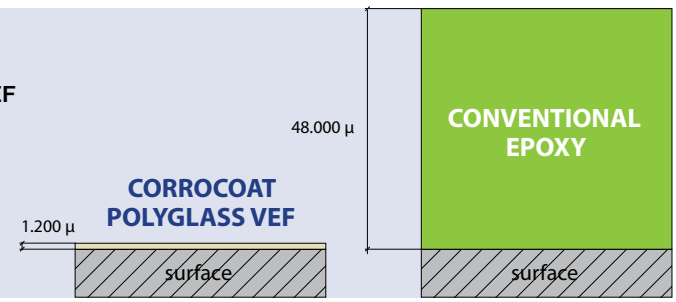
NEW FOR OLD



HIGH EFFICIENCY **SAVINGS**

TO MATCH THE PERMEABILITY OF A **1.2 mm** THICK **POLYGLASS VEF**
YOU NEED TO APPLY A **48 mm** THICKOF CONVENTIONAL EPOXY
HOW MUCH WOULD THAT COST?

Glassflake polyester and **FLUIGLIDE** applied on hydraulic parts provides corrosion protection and improvements in efficiency
10% FUEL OR ENERGY SAVINGS!



PROTECTED BY CORROCOAT

Corrosioneering: a blendof cost effective corrosion protection and engineering

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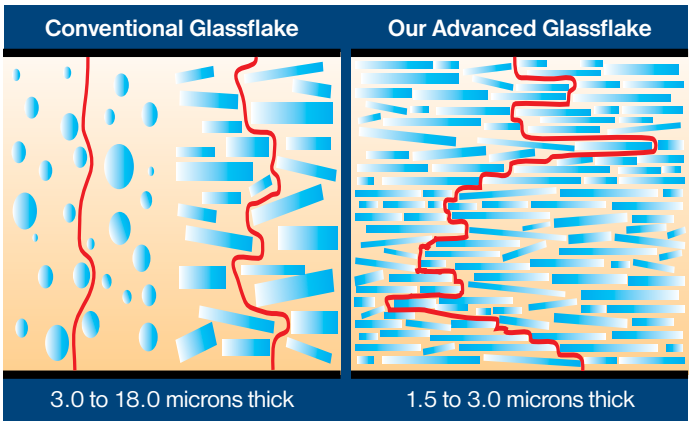
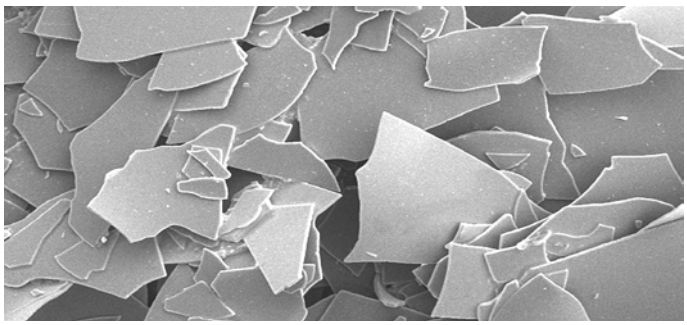
corrosion treatment لمعالجة الصدأ

BENEFITS OF **ADVANCED GLASSFLAKE COATINGS**

Corrocoat's success is backed by 37 years of research and development. The **"CORROCOAT"** solution has evolved into a specialized package comprising design, engineering, and manu-facture and testing, all of which are comprehensively structured to meet the exacting demands of industry. Our Corrosion Prevention service technology coating systems, coupled with the use of skilled engineering techniques are backed up by advanced levels of technical expertise.

What differentiates Corrocoat's materials from other coatings? Apart from Chemical Resistance, the most important characteristic for coating life expectancy is the coating's resistance to moisture vapour permeation.





The time for small molecules, such as oxygen or water to diffuse through a barrier film, can be measured and quantified allowing a direct comparison between different types of coating.

Corrocoat materials contain multiple layers of micro flakes of glass, bound together with high performance resins. The resins are solvent free, 100% solids polymers. Many different types of flake glass filler exist. The thickness of the flakes, quality of flakes, quantity of flakes and number of layers of flake will affect the permeation resistance and subsequent long-term life expectancy of the coating. Other factors such as the packing density of flake and optimum flake loading levels also influence the rate of moisture vapour transmission. The flakes are relatively impermeable and create a long tortuous winding path for small molecules to follow when they pass through the coating to the steel. The longer the winding path length, the longer the time to permeate the coating and the longer the life expectancy.

CORROSIONEERING

...a blend of cost effective corrosion protection and engineering

CORROCOAT WORLDWIDE

QATAR & UK CONTACTS

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