

Introduction to Engineering Repair Systems, Chemical and Corrosion Resistant Coatings

Polymeric Engineered Solutions is a Distributor of manufactured engineered repair products and chemical and corrosion resistant coatings. The products have been designed to offer repair and protection solutions to many industrial maintenance problems. The materials are widely used by engineers based in the oil and gas, power, marine, water, paper and chemical industries. *The benefits of using the Polymeric Engineered Solutions product range include -*

- Reduction of life cycle cost of key operating equipment
- Allows engineers to perform preventative maintenance
- Protection of equipment from erosion, corrosion and chemical attack
- Reduction in downtime of essential process equipment

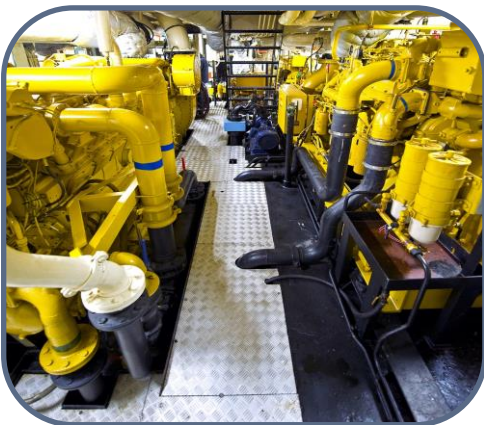
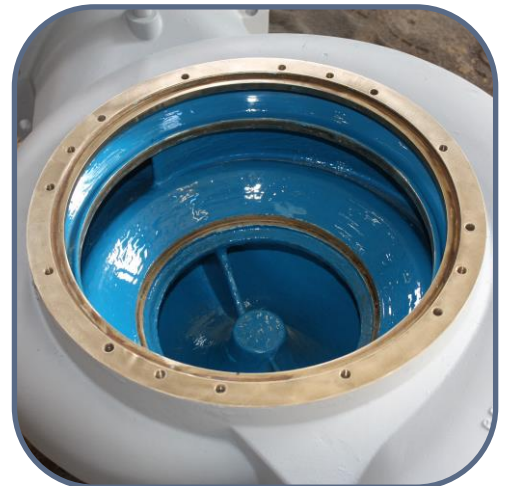


Mechanical Repair

The products are based on the latest epoxy resin and Nano particle technology and are widely used within the engineering industry for repairs to mechanical equipment and components. The materials can be used for emergency repairs such as leaking pipe work or tank seams or as planned refurbishment work including resurfacing scored hydraulic rams or drive shafts. Once cured the materials can be machined down to fine tolerances.

Fluid Flow Protection

The ceramic enhanced product range is ideally suited to rebuilding and resurfacing mechanical equipment and components subject to erosion and corrosion in a fluid flow environment. Typical repairs can include pump casings, impellers, heat exchangers, rudders, bow thrusters and valve casings. The products are available in several grades depending on the type of equipment in need of repair and the working environment they operate in.



Composite Repair of Pipework

Based on solvent free epoxy technology Polymeric Engineered Solutions composite repair systems are ideal for repairs to problem pipe work ranging from 1" to 36" diameter. The products are widely used within the marine and power generating industries and allow engineers to encapsulate corroded steel or plastic pipe work.

High Temperature Immersion Protection

Available in brush or spray grade the materials, once fully cured, are capable of protecting equipment against a range of aggressive chemicals including hydrocarbons, acids, alkalis, solvents, water and steam at temperatures up to 266°F.



Chemical Resistant Coatings

Polymeric Engineered Solutions chemical coatings offer high performance protection from a wide range of aggressive industrial chemicals. The products ensure expensive chemical processing assets are protected from chemical attack and premature failure. The coatings have been specifically developed to cover a wide range of applications and can be applied to both metallic and cementitious surfaces. Polymeric Engineered Solutions coatings are capable of withstanding 98% sulphuric acid, 36% HCL and can provide protection in environments subject to elevated temperatures

Corrosion Resistant Coatings

Polymeric Engineered Solutions corrosion protection products offer a versatile range of solutions to industrial erosion, corrosion problems. The products ensure minimal downtime of production areas or processing equipment and in many cases are tolerant of less than ideal surface preparation. The materials are widely used in industry and ensure that expensive capital equipment and structures are given long term high performance protection from the environment



Waterproof Membranes

Polymeric Engineered Solutions has developed a range of single pack water proof membranes that are capable of encapsulating metallic and cementitious surfaces. Once cured the materials eradicate further corrosion or ingress of moisture and offer 10 year + protection. Polymeric Engineered Solutions water proof membranes are tolerant of less than ideal surface preparation and can be applied by hand or standard airless spray systems.