

world leaders in advanced polymer technology

# ENECON®



[www.enecon.com](http://www.enecon.com)



## Erosion, Corrosion, Cavitation, Wear and Chemical Attack Problems on:

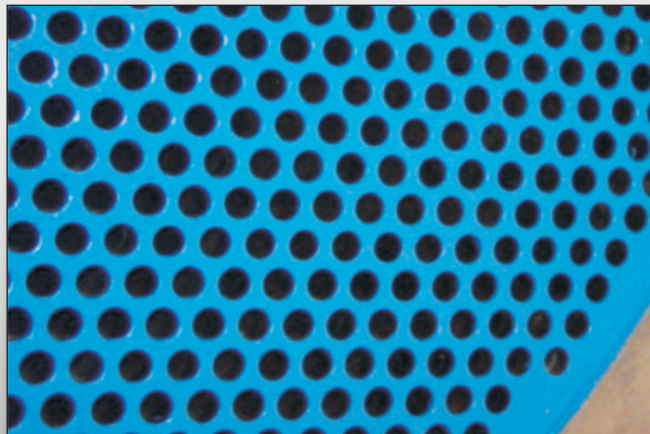
**pipes • pumps • impellers • valves • tanks • condensers • heat exchangers • tube sheets • water boxes • chillers • absorbers • shafts • hydraulic rams • FGD systems • scrubbers • centrifuges • cooling towers • containment dikes • troughs • spillways • propellers • kort nozzles • bow thrusters • rudders • struts • hull fairing**

A recognized world leader in developing advanced polymer technologies, **ENECON<sup>®</sup> Corporation** has pioneered unique coating systems for industries including the U.S. Navy, the petrochemical industry and electrical utilities. These extraordinary polymer systems are the result of years of research and development work that began with the first epoxy skid-resistant deck coatings approved by the U.S. Navy and the first products approved to the Department of Defense Specification C-24176 for hull fairing / smoothing.

The senior management of **ENECON<sup>®</sup> Corporation** have many years of combined practical experience in troubleshooting

industrial fluid flow problems. They have worked closely in the past with such diverse and prestigious organizations as the Panama Canal, Army Corps of Engineers, United States Navy, nuclear and fossil fuel power stations, pulp and paper mills, petrochemical plants, mining and quarrying operations, food processing facilities, etc.

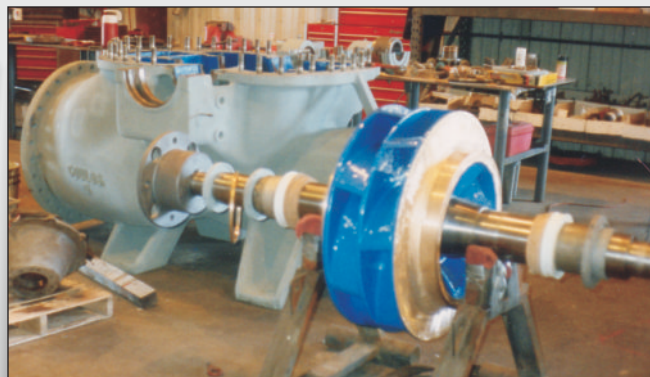
**ENECON<sup>®</sup>** is strategically positioned to provide industry, utilities and institutions with the finest repair and protection products and services available. **ENECON<sup>®</sup>**, therefore, is the name to call when fluid flow problems are costing you time, money and aggravation.



### International Testing & Approvals

- U.S. Military Specification DOD-C-24176 / QPL-24176
- Nuclear Irradiation, Decontamination & DBA Testing
- Other Tests / Approvals / Commendations:  
U.S. Army, U.S. Navy, ABS, NSF, Korean Register

Specific details / product information available upon request.





# METALCLAD<sup>®</sup>

*the most advanced metal repair & protection systems available*

Wherever erosion, corrosion, wear or chemical attack create problems in fluid flow systems, **METALCLAD<sup>®</sup>** polymer composites provide the ultimate solution.

ENECON<sup>®</sup> researchers have combined the latest and safest polymer technology with unrivaled fluid flow systems engineering know-how to produce the most advanced polymer systems available for rebuilding, resurfacing and protecting virtually all fluid flow components as well as plant structures.

**METALCLAD<sup>®</sup>** systems exhibit outstanding compressive and flexural strengths as well as phenomenal adhesion. Their ability to cure at low temperatures, their superb chemical resistance and their non-shrink properties make them the obvious choice for the maintenance engineering professional.

**METALCLAD<sup>®</sup>** repair and protection systems offer incredible savings over conventional repair or replacement procedures.

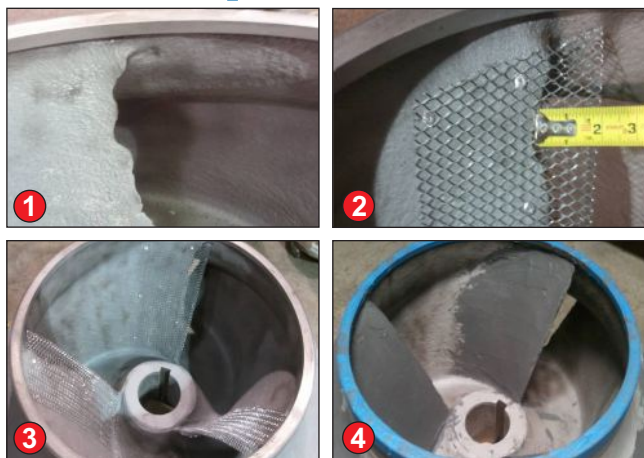
## SpeedAlloy<sup>®</sup> & SpeedAlloy<sup>®</sup> QS



### The "leak stopper!"

Fast, easy, non-slump; can be used to repair just about any leak in minutes: pipes, tanks, sumps, casings, radiators, fuel tanks, etc. Bonds to virtually any rigid surface!

## CeramAlloy<sup>®</sup> CP+AC



Outstanding erosion resistance. Trowelable system for repairing and rebuilding metal damaged by erosion and corrosion: pumps, valves, heat exchangers, tube sheets, water boxes, etc.

## CeramAlloy<sup>®</sup> CBX & EBX



Repair & protect all types of equipment subject to very aggressive abrasion. Engineered to repair deeply damaged components.

## DurAlloy<sup>®</sup>



Multi-purpose; can be drilled, tapped, turned on a lathe, sanded and polished. Can be used to repair worn shafts, cracked casings and engine blocks, stripped threads, sloppy keyways, scored hydraulic rams, oversize bearing / bush housings, etc.

## CeramAlloy<sup>®</sup> CL+AC



The ultimate resurfacing system for protecting fluid flow equipment. Brushable, self-leveling, castable: for pumps, valves, water boxes, tube sheets, tanks, propellers, kort nozzles, bow thrusters, rudders, struts, etc.

# METALCLAD<sup>®</sup>

the most advanced metal repair & protection systems available

## CeramAlloy<sup>®</sup> HTP & CeramAlloy<sup>®</sup> HTL

To combat the problems caused by corrosive environments on equipment accelerated by elevated operating temperatures, ENECON<sup>®</sup> has developed specialized versions of its CeramAlloy that can withstand elevated temperatures in immersed service and under dry conditions.

These materials, **CeramAlloy<sup>®</sup> HTP** and **CeramAlloy<sup>®</sup> HTL** can be used to repair and rebuild localized damage as well as coat and protect entire components from future damage.

**CeramAlloy<sup>®</sup> HTP** is a two component, 100% solids polymer composite specifically formulated to rebuild and repair all types of fluid flow equipment that may be subject to elevated temperatures.

**CeramAlloy<sup>®</sup> HTL** is a two component, 100% solids, liquid polymer composite used for repairing, resurfacing and coating both damaged and new components to provide outstanding erosion and corrosion resistance at elevated temperatures.

**Repair & rebuild all types of equipment, outstanding erosion/corrosion resistance - even at elevated temperatures!**



## DuraWrap<sup>®</sup>

### Carbon Fiber Pipe Wrap System

METALCLAD<sup>®</sup> DuraWrap<sup>®</sup> polymer / carbon fiber reinforced composite makes repairing and rebuilding aging, often severely deteriorated piping, tanks and other fluid flow equipment possible.

The ENECON<sup>®</sup> DuraWrap<sup>®</sup> composite, a unique marriage of ENECON<sup>®</sup>'s high performance polymers and cutting-edge carbon fiber technology, was specifically created to repair, rebuild, reinforce and even restore the integrity of such fluid flow systems - thereby greatly extending their service life and eliminating the need for expensive replacement.

DuraWrap<sup>®</sup> can be applied to the interior and / or exterior of piping and equipment to both seal and strengthen these components. When applied to the interior walls of underground or otherwise inaccessible piping, DuraWrap<sup>®</sup> can effectively repair and restore pipe integrity without expensive excavation and replacement.

The outstanding performance of the ENECON<sup>®</sup> METALCLAD<sup>®</sup> DuraWrap<sup>®</sup> system allows today's maintenance professional to extend the service life of yesterday's equipment and structures.





# FLEXICLAD®

*extraordinary, super resilient polymer systems specifically developed for cavitation problems*

Whether it's pump impellers or ships' propellers, cavitation damage to metal is a never ending problem — and one that presented very few repair options to the maintenance engineer in the past. But now, **FLEXICLAD® DuraTough™** systems from ENECON® provide exceptional protection to equipment prone to cavitation attack and subsequent damage. Super tough, super resilient and cost effective.

**FLEXICLAD® DuraTough™** systems provide the sensible alternative to some of the most severe erosion / corrosion problems in industry today.

**Superior strength, durability and adhesion with flexibility, abrasion resistance and elongation.**



## DuraTough™ DP



**FLEXICLAD® DuraTough™ DP** is a two component, 100% solids elasto-ceramic polymer composite specifically formulated to rebuild equipment prone to cavitation attack and subsequent damage.

## DuraTough™ DL



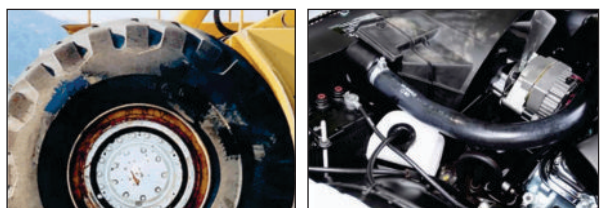
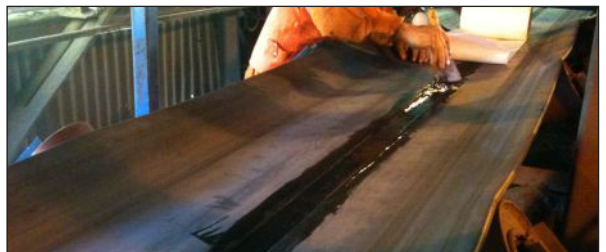
**FLEXICLAD® DuraTough™ DL** is a two component, 100% solids, fluid consistency elasto-ceramic polymer composite specifically formulated to resurface and protect equipment subject to cavitation accelerated erosion / corrosion.

## FLEXICLAD® ER

**FLEXICLAD® ER** is a two component, 100% solids, trowelable polymer composite that has been specifically formulated to repair damaged flexible components such as conveyor belts, hoses, expansion bellows, etc.

**FLEXICLAD® ER** is a very unique material that requires no primer, bonds to most rubber / flexible materials and cures at ambient temperatures – no heat is required. It is safe and simple to use and no special tools are needed. It can be used to create irregular flexible gaskets on distorted flange faces or to create a resilient bond for metal, wood, etc. It can also be used to seal / caulk heat exchanger water boxes to tube sheet faces or to seal joints in condensate pans, cooling tower pans, etc. **FLEXICLAD® ER** is an indispensable addition to any maintenance engineer's tool box.

- **Conveyor Belts**
- **Hoses**
- **Resilient Bonding of Metals, Woods, etc.**
- **Creating / Repairing Flexible Seals, Gaskets & Seats**
- **Expansion Bellows**
- **Damaged Sidewalls on Off-Road Tires**



# CHEMCLAD®

*the ultimate in chemical protection systems*

Approved  
For Potable  
Water!



Certified to  
NSF/ANSI 61

Contact your local  
ENECON® Fluid  
Flow Systems  
Specialist for details.

Resistant to a wide variety of organic and inorganic acids, alcohols, alkalis, esters, ethers, hydrocarbons, halogenated hydrocarbons, ketones, oils, salts, etc., **CHEMCLAD®** systems from ENECON® are the finest chemical resistant claddings available.

They are revolutionary polymer composites that can be easily and safely applied by brush, roller, squeegee or airless spray - even in confined spaces.

#### For Metal...

pipes, tanks, pumps, valves, fume hoods, drains, heat exchangers, etc.

#### For Concrete...

containment dikes, troughs, spillways, process areas, etc.



## CHEMCLAD® SC



**CHEMCLAD® SC** - a two component, 100% solids, polymer system that creates an outstanding corrosion and chemical resistant protective coating on all types of equipment and structures.



**CHEMCLAD® SC** is simple to use. It mixes easily and can be applied by brush, roller or airless spray. It is available in different colors to simplify overcoating. This self-leveling, high gloss coating yields a surface that's not only functional, but also aesthetically pleasing.

## CHEMCLAD® XC



**CHEMCLAD® XC** is a two component, 100% solids, ultra high performance, chemical resistant coating that provides unrivaled protection in some of the toughest chemical environments.



**CHEMCLAD® XC** is resistant to a broad range of organic and inorganic acids, alkalis, solvents, salts, hydrocarbons, etc. It is easily applied by brush or roller and can be used to protect all types of metal and cementitious surfaces.



# ENECRETE®

*the finest concrete repair & protection systems available*



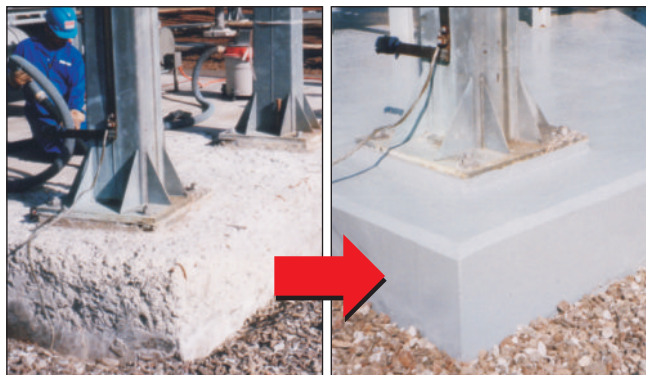
The **ENECRETE®** family of products covers a wide range of repair and protection products specifically designed to tackle some of the toughest concrete problems. These include wear, impact and abrasion problems as well as hydrostatic pressure situations.

**ENECRETE®** materials exhibit extraordinary adhesion to existing concrete as well as most other masonry substrates including brick, tile, stone, terrazzo, etc.

Whether the problem is on floors, walls, secondary containment areas, leaking basements, elevator pits or any other concrete structure, there is an **ENECRETE®** material that can help solve your toughest repair and protection issues.



## DuraQuartz®



A three-component, 100% solids, concrete repair compound specifically formulated and precisely engineered to provide solutions to the most difficult concrete repair and protection problems. **A Light Weight aggregate version is also available for vertical and overhead surfaces.**

## DuraFill®



A two-component, 100% solids, polymer system specifically designed for broadcast flooring applications and for filling deeper holes and cavities in concrete when combined with locally sourced aggregates.

## ENECRETE® WP



A cementitious, one component, extremely fast-setting product with the ability to stop running water through masonry structures. It is designed to be mixed with water and to set within one minute.

## ENECRETE® WS



A protective and waterproofing product for masonry structures. It employs a multiple curing reaction process to impart its exceptional properties for waterproofing, chemical resistance and adhesion.



# ENESEAL®...

for weather & waterproofing problem areas on all types of roofs - plus unrivaled heat refraction properties

## ENESEAL® HR

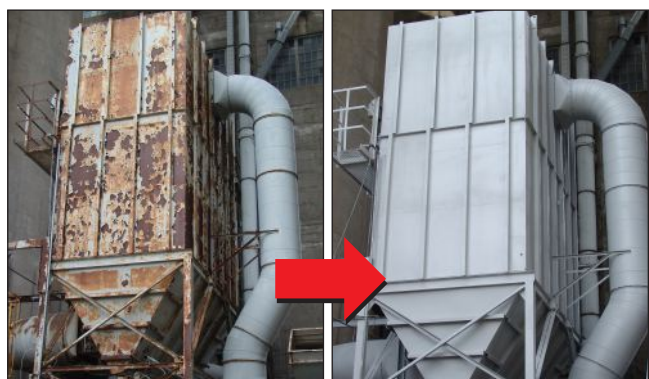


**ENESEAL® HR** is a single component, water based, liquid ceramic-filled membrane which cures to a durable, seamless, flexible 'skin' that refracts and reflects heat while providing a moisture resistant barrier to virtually any type of surface.



**ENESEAL® HR** is easily applied by brush, roller or spray. Because it's water based, cleanup is quick and easy with soap and water. Completely non-toxic and non-flammable. It can provide many years of weatherproofing protection to just about any type of roof.

## ENESEAL® CR

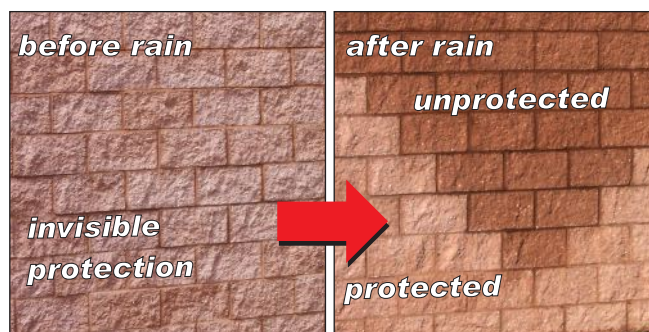


**ENESEAL® CR** is a single component, water based, liquid coating which dries to a highly durable, corrosion resistant, elastomeric 'skin' that provides extraordinary environmental protection to metal and concrete / masonry surfaces.



**ENESEAL® CR** is a 'surface tolerant' coating system that does not require abrasive blasting. It exhibits excellent adhesion to all types of ferrous metal as well as galvanized surfaces. Mechanical wire brushing, grinding or high pressure water blasting is typically acceptable to achieve good adhesion.

## ENESEAL® MP



**ENESEAL® MP** is a single component, water-based, ultra-low viscosity weather barrier which dries to a completely invisible, water repellant masonry sealer. It provides extraordinary weather protection to virtually all types of concrete, masonry and mineral surfaces.

## ENESEAL® MP/HS



**ENESEAL® MP/HS** is specially formulated to provide long-term protection on **horizontal surfaces**.



# ENECLAD<sup>®</sup>...

*rugged & reliable high-performance protection - the ultimate floor protection system for a new era*

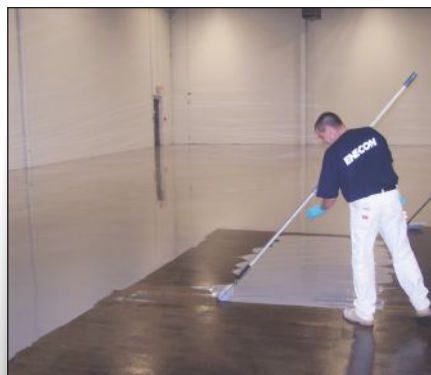


Easy to apply **ENECLAD<sup>®</sup>** seals and strengthens concrete floors. These high performance polymer composites are extremely abrasion resistant, making them ideal for heavy traffic areas in warehouses, hangars, loading docks, etc. They jacket the surface in a rugged coating that resists forklift traffic, oil, gasoline and most industrial chemicals.

**ENECLAD<sup>®</sup>** systems are solvent-free, odor-free, 100% solids, multi-component products specifically developed to solve the toughest industrial floor protection problems. They are easily applied by brush, roller or squeegee to a super high-gloss finish. Non-skid aggregates can be incorporated into the **ENECLAD<sup>®</sup>** systems to provide a highly durable, slip-resistant surface.

**ENECLAD<sup>®</sup>** systems can also be used to repair and level damaged concrete surfaces, making them suitable for our extended line of **ENECLAD<sup>®</sup>** high-gloss topcoats.

## ENECLAD<sup>®</sup> FPS



This extraordinary high performance polymer composite is extremely abrasion resistant, making it ideal for heavy traffic areas in warehouses, hangars, loading docks, etc.

## ENECLAD<sup>®</sup> CFS



A two-component, 100% solids, clear concrete sealer that is virtually odor-free and has no V.O.C.'s. It has been specifically formulated to provide outstanding sealing and dust-proofing for all types of cement and mineral substrates.

## ENECLAD<sup>®</sup> WBC



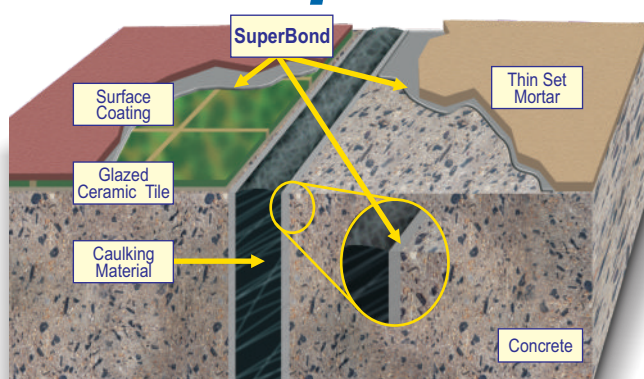
A two component, water-based, breathable coating system specifically designed to seal and protect concrete surfaces that may experience moisture problems. It resists blistering due to hydrostatic pressure and bonds to virtually any mineral/cement substrate as well as wood.

## ENECLAD<sup>®</sup> SPS



A three-component, 100% solids, concrete primer / sealer that is specifically formulated to also smooth-out rough concrete surfaces in order to improve the appearance of **ENECON<sup>®</sup>** top-coats such as **ENECLAD<sup>®</sup> FPS** or **CHEMCLAD<sup>®</sup>**.

## ENECLAD<sup>®</sup> SuperBond<sup>™</sup>



A revolutionary structural adhesive that provides unrivaled performance when bonding a new concrete overlay to an existing, cured concrete surface or when bonding synthetic / plastic mortars to virtually any rigid surface.



# **SAFETYCLAD®**

*create the finest slip-resistant surfaces for the most critical environments*

## **DuraGrip®**

**SAFETYCLAD® DuraGrip®** systems are designed to provide some of the finest slip-resistant surfaces for the most demanding applications.

Whether on metal, concrete, tile, marble, slate or terrazzo, our **DuraGrip®** systems can be tailor-made to provide the specific level of slip resistance required - from very fine to very coarse.

Our **DuraGrip®** systems utilize the finest polymer composite materials available from ENECON® to bond a variety of hard wearing aggregates to suit your specific requirements. You can create just about any pattern or shape that the situation demands.

So whether it's steps, walkways, tank tops, ramps, shower areas, or entire floor areas, **SAFETYCLAD® DuraGrip®** systems can provide the best slip-resistant surface possible.



**Steps & landings**



**Ramps & walkways**



**Shower areas & kitchens**



**Create the specific slip-resistant pattern you desire.**



**Attractive yet highly functional!!**

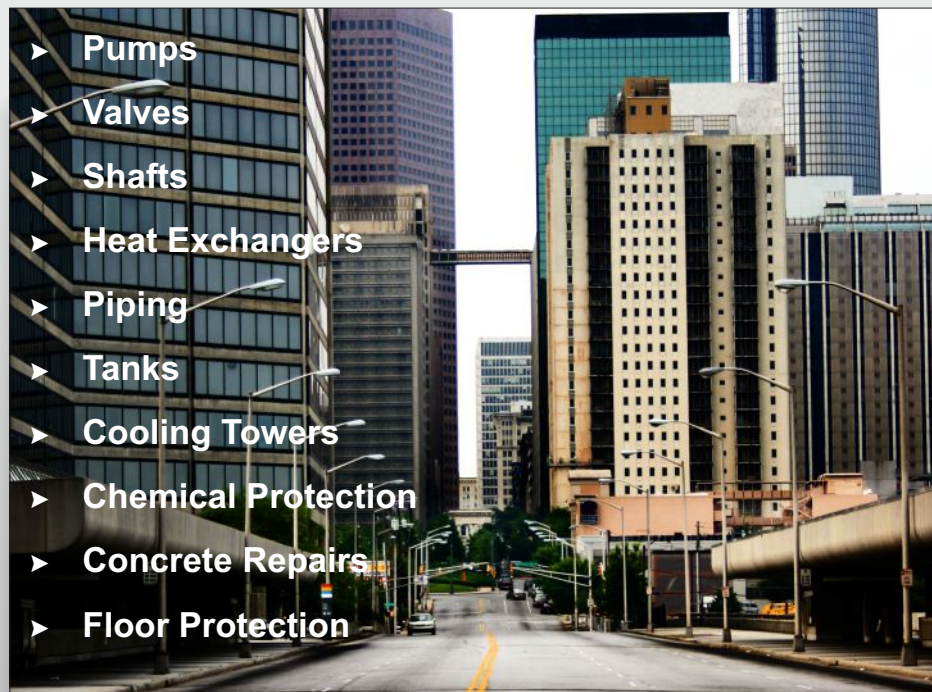


# REPAIR - DON'T REPLACE...

*make us a part of your maintenance & repair team*

## ENECON® Can Provide 'Industrial Strength Solutions' for All Your Repair & Maintenance Needs™

Let ENECON® show you how our high performance polymer composites and applications know-how can save you time, money and aggravation. We're doing it for thousands of demanding clients in over 60 countries around the world. We can provide you with commercially proven and cost effective repair solutions for your machinery, equipment and plant structures damaged by erosion, corrosion, cavitation, wear, impact, abrasion, chemicals, hydrostatic pressure, etc.



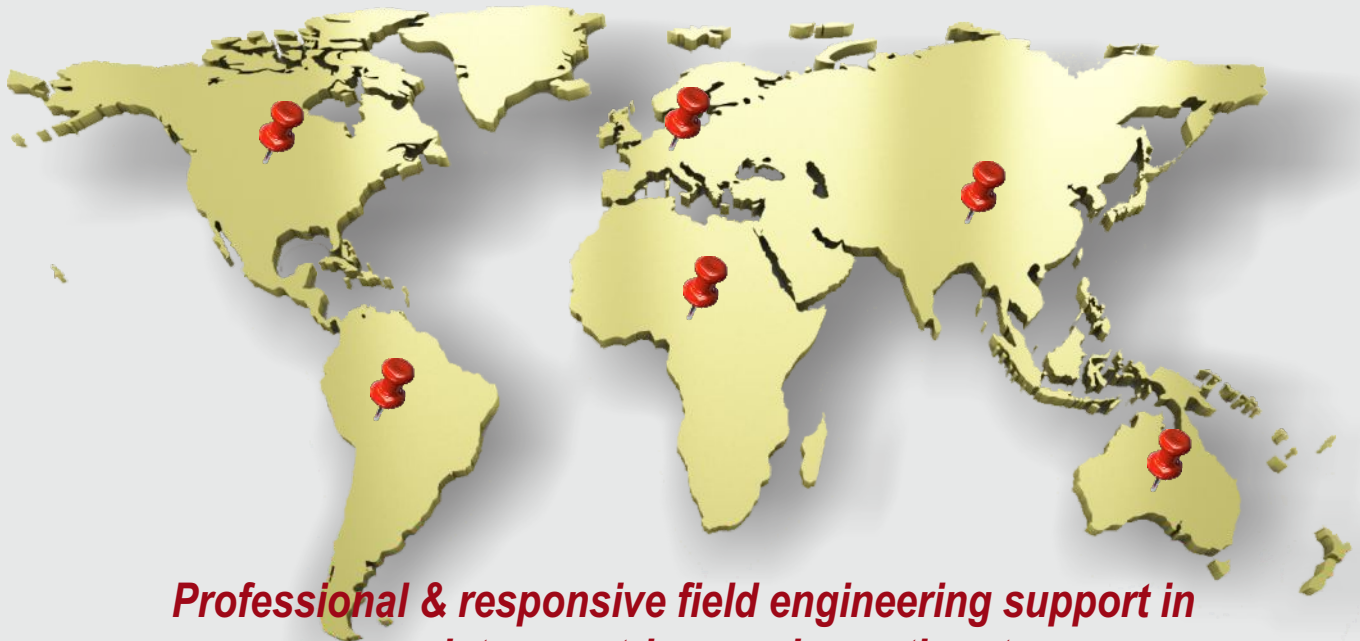
Contact us today for a free technical seminar at your facility. We will be happy to share ideas and provide some practical insights into the latest advances in high-tech polymer repair and maintenance technology.

***The advice is free...the results may be priceless!***





# THE ENECON® INTERNATIONAL FAMILY...



**Professional & responsive field engineering support in  
over sixty countries on six continents.**

**ENECON® Corporation**  
The Fluid Flow  
Systems Specialists.  
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