

# Made In Michigan Corotech Company

Grand Rapids - CoroTech Company, a full service corrosion-lining company headquartered in Grandville and founded in 1973, has developed an innovative new process for protecting the inside of pipes and storage tanks from corrosive substances that represents the kind of industrial technology advancements that can help Michigan regain its standing as a national leader in industry.

Called "infusion lining," the process was developed by Corotech, which has a patent application for the process pending with the U.S. Patents Office. Infusion lining can lead to significant savings for industrial companies that use carbon, alloy or fiberglass reinforced plastic (FRP) pipes or tanks.

"Infusion lining allows existing pipe and tank systems to be protected from the corrosive materials they contact with limited shut-down time, reduced costs and a better quality product," said Kirk Kuipers, advanced composites division manager at Corotech. "We are excited to be the only ones in our industry who employ this technology, and the process is going to be a strong growth leader for our company."

The process relies on creating a negative cavity pressure within a pipe or tank to pull liquid resins into dry composite laminates. The resins bond to the interior sur-



**CoroTech Co.**  
CORROSION TECHNOLOGY

faces to create a uniform, hardened, durable lining that protects from corrosive substances and can extend the life of the protected surfaces by years. Corotech's infusion lining process is an adaptation of the FRP infusion method utilized successfully by the marine and aerospace industries.

The performance benefits of infusion lining are significant. The process can be performed on-site at existing facilities such as power plants, including difficult-to-access areas where traditional lining methods are impractical or inconsistent.

The process can produce very strong structural laminates with high fiberglass content, is clean with no resin left to dry on open surfaces, and emits no volatile organic compounds (VOCs) into the atmosphere.

"The beauty of this process is in its chemistry," said Kuipers. "With the infusion process, we can combine many different materials to achieve certain thicknesses and attributes for the corrosion resistant linings, all based on each individual customer's needs."

Increased safety is another key benefit of the infusion lining process. Traditional FRP re-lining methods are con-

sidered by customers to be messy, uncontrollable and sometimes unsafe due to the volatile nature of liquid flammable resins and working inside confined spaces in tanks. The infusion lining process is very clean, controllable and safe. No VOCs are emitted and the smell of styrene eliminated because the process is accomplished in a closed cavity.

The Corotech infusion lining process provides a cost effective alternative to replacing existing pipes and tanks, a lower cost alternative to using higher cost alloys for new applications requiring corrosion resistance and minimizes system downtime because of the ability to apply these linings on-site.

At a time when many industrial companies are contracting, Corotech continues to grow. The company continues to add employees and has more than doubled its revenue since 2005. Corotech envisions tremendous growth opportunity for its infusion-lining process in the power generating and pulp and paper industries.

**MANUFACTURED TECHNICAL SOLUTIONS**

World Class Manufacturing & Engineering Services

- Tool & Dies
- Special Machines
- Fixtures & Gauges
- CNC/General Machining
- Prototyping
- Project Management

3630 Highland Drive  
Hudsonville, MI 49426

Phone (616) 667-8570  
Fax (616) 667-8571

**DYNA-PLATE, INC.**

**SPECIALIZING IN QUALITY ZINC BARREL PLATING**

**ISO 9001:2000 Certified**

PROCESSES AVAILABLE AT DYNA-PLATE INC.

(Barrel Plating Lines Only)

**TRIVALENT CHROMATES - AUTOMOTIVE APPROVED**

- ZINC WITH CLEAR CHROMATE (Flash - .0005 thickness)
- ZINC WITH YELLOW CHROMATE (Flash - .0005 thickness)
- ZINC WITH BLACK CHROMATE (.0001 - .0005 thickness)
- ZINC WITH OLIVE DRAB CHROMATE (.0001 - .0005 thickness)
- BAKE FOR HYDROGEN EMBRITTLEMENT

344 Mart SW Grand Rapids MI 49548

**P: (616) 452-6763**

**F: (616) 452-6661**

**www.dynaplate.com**