



# Solutions for Pulp & Paper Industry





The pulp and paper industry operates under some of the harshest conditions found in industrial processing. Equipment is constantly exposed to erosion, corrosion, abrasion, chemical attack, high humidity, steam, mechanical impact, and continuous operation cycles. Gecko® provides a complete portfolio of epoxy repair composites, ceramic-reinforced coatings, urethane technologies, industrial cleaners, degreasers, rust removers, lubricants and specialty products designed to restore, protect, and enhance the performance of pulp and paper processing assets.

Gecko® solutions minimize downtime, reduce maintenance cost, and extend asset life even under the demanding environments of digesters, refiners, pumps, chests, clarifiers, rolls, and high-wear handling systems.



## Restoration and Efficiency Enhancement of Fluid-Handling Systems

Fluid-handling equipment in pulp and paper plants suffers severe wear from corrosive chemicals, abrasive slurries, steam, and fiber-laden fluids.

Gecko® offers solvent-free epoxy repair composites that rebuild pumps, pipes, agitators, refiners, and valves back to their original profile.

These cold-curing materials bond to steel, cast iron, and stainless steel without the need for heat, welding, or specialized equipment.

Once repaired, Gecko® ceramic and chemically resistant coatings can be applied to:

- ✓ Pump casings, impellers, and volutes
- ✓ Digesters and chemical circulation lines
- ✓ Stock preparation equipment and fans
- ✓ Paper machine approach-flow systems

Our coatings provide long-term resistance to erosion, corrosion, and chemical attack, and can improve pumps efficiency.

## Concrete Protection of Pits, Chests & Effluent Areas

Pulp and paper facilities contain large concrete structures subjected to H<sub>2</sub>S attack, chemical exposure, abrasion from fibers, thermal cycling, and heavy loads.

Gecko® offers epoxy-based concrete rebuild materials for:

- ✓ Chests and tanks
- ✓ Stock prep areas
- ✓ Bleach plant floors
- ✓ Effluent treatment basins
- ✓ Clarifiers and channels

Gecko® high-strength quartz-filled materials restore spalled and chemically deteriorated concrete surfaces permanently.

Our coatings provide long-term protection against chemicals, moisture penetration, and erosion, ensuring safe, durable, and easy-to-clean surfaces.

## Leak Sealing and Emergency Containment

Gecko® elastomers and cold-curing epoxy repair systems allow in-situ sealing of leaks on:

- ✓ Water lines
- ✓ Chemical feed systems
- ✓ Steam lines
- ✓ Effluent and pulp transfer piping
- ✓ Tanks and clarifier joints

Gecko® emergency leak-stop composites cure rapidly, even in wet conditions, and stop leaks without welding or shutdown.

Using Gecko® with an fiberglass-reinforced tape restores structural integrity and prevent future failures.

Flange and joint protection systems prevent corrosion-crevice failures and prolong equipment life.

## Repair and Protection of Mechanically Damaged Equipment

Mechanical components like:

- ✓ Roll journals
- ✓ Shafts
- ✓ Bearing housings
- ✓ Refiner components
- ✓ Agitators and mixers

Are often damaged by wear, vibration, and misalignment.

Gecko® metal repair composites allow on-site restoration, eliminating the need for component replacement and reducing downtime.

Ceramic- and carbide-filled coatings protect against erosion and abrasion from pulp fibers, fillers, sand, and process chemicals.

These solutions extend equipment life and improve reliability in critical operations.



## Protection From Chemical Attack

Pulp and paper facilities use highly corrosive chemicals, including:

- ✓ Sodium hydroxide
- ✓ Sodium hypochlorite
- ✓ Chlorine dioxide
- ✓ Sulfuric acid
- ✓ Peroxide-based solutions
- ✓ Black liquor and white liquor

Gecko® epoxy composites and coatings provide outstanding chemical resistance in:

- ✓ Bleach plants
- ✓ Chemical storage tanks
- ✓ Recovery boilers
- ✓ Clarifiers and containment areas
- ✓ Washer systems

Our systems shield equipment from pH extremes, continuous immersion, and corrosive slurries, ensuring long-term durability.

## Industrial Cleaning, Degreasing, and Rust Removal

Pulp and paper environments suffer intense contamination from fibers, pitch, oils, resins, biofilms, and scale.

Gecko® industrial cleaners and degreasers remove:

- ✓ Heavy grease and oil
- ✓ Organic and inorganic residues
- ✓ Resinous deposits
- ✓ Fiber build-up and pulp solids

Gecko® rust removers restore corroded equipment surfaces before protective coatings are applied, ensuring optimal adhesion and long-term performance.

## Lubricants and Corrosion Inhibitors

Gecko® specialty lubricants and long-term corrosion inhibitors protect:

- ✓ Chains
- ✓ Roller bearings
- ✓ Gearboxes
- ✓ Wire ropes
- ✓ Mechanical drives

These products resist moisture, steam, chemical exposure, and high temperatures common in pulp and paper operations.

## Gecko® Your Partner in Reliability and Process Optimization

Whatever your application repair, protection, cleaning, corrosion prevention, or lubrication, Gecko® provides engineered solutions for the pulp and paper industry.



Our R&D laboratories can develop customized formulations to meet unique process requirements, environmental regulations, and performance demands.

**Less downtime and faster return-to-service.  
More reliability, safety, and long-term asset protection.**





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The technical data, recommendations, and statements presented in this brochure reflect good-faith testing and experience that CMV50 Corporation Inc. regards as dependable. Nevertheless, the accuracy and completeness of such information cannot be assured, and it is not intended to replace or substitute the customer's independent testing.

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