ABOUT US

COMPANY HISTORY
Curran International provides innovative solutions to improve the reliability of fixed equipment for refinery, petrochemical, power generation, oil & gas processing industries. Curran is known globally for its exchanger tube ID coatings that minimize tube fouling and inhibit corrosion. We provide a wide range of Refiner Heat Transfer Equipment Services to restore exchangers and extend the useful service life of fixed assets. Our services are facilitated at shops located in six countries and industry partners located around the globe.

SAFETY
Curran International is fully committed to employee safety. Since its inception, Curran has maintained an excellent safety record. We are recognized and approved for on-site contract work by the global leaders in the refinery and petrochemical industries. Curran International supports the right of every employee to have “Stop Work” authority; job safety comes first.

CERTIFICATIONS

WE PROVIDE ALL OUR SERVICES GLOBALLY AND IN-SITU.

HIGH FUNCTIONALITY TUBE ID COATING

Thin film exchanger coatings have proven to mitigate fouling and corrosion that reduce asset life and cause unplanned shutdowns. Fouling leads to reduced heat transfer and production bottlenecks, increased maintenance, tube corrosion risks the integrity of exchanger mechanical performance and plant safety.

Curran International is the world leader in applying highly functional thin film polymer and hybrid coatings to eliminate exchanger fouling and corrosion. All applications are subject to Curran quality control, and critical hold points documented and reported to client. We coat shell & tube, exchanger bundles, air coolers, U tube and plate and frame exchangers; provide in-service exchange tube ID restoration; tube end coating, OD tube coating; in-situ and field coating applications.

CURRAN 1000 SERIES
An advanced two-part 100% solids epoxy coating designed for high temperature immersion service in cooling water, hydrotreaters and process streams. This coating is an organic/inorganic hybrid with superior mechanical performance; resistant in cooling water steam services to 365°F and excurions to 400°F (204°C). Applied to 8-14 mils total DFT.

PHENOLIC
Shop applied, bake catalyzed suitable for all cooling water services, hydrotreaters, salt solutions and solvents. Immersion resistance to 365°F; applied to 7-10 mils total DFT.

PFA, PTFE, PPS
Shop applied, bake catalyzed thermo-melts; superior resistance in chemicals, solvents, and acids. Immersion resistant to 500°F. Applied to 8-14 mils DFT.

CURRAMIX 2500
An ultra-low DFT ambient-cure coating system designed for high temperature fouling services; possesses excellent hydrophobic & oleophobic properties, anti-coating performance, resistant to thermal cycling and is suitable for services to 1200°F. Ideally suited for heat exchanger tubes, plate & frame exchangers. Applied to 20-40 microns total DFT.

SOL GEL
Ceramic SiO2 “backbone” hybrid with organic and inorganic components, suitable for plate & frame, and tube bundles in process critical services. Applied to 20-40 microns total DFT.
ALLOY TUBE LINERS AND FERRULES FOR EXCHANGER RESTORATION

ALLOY LINERS
Curran repairs corroded exchanger tubing using a tube-in-tube alloy liner installed and hydraulically expanded the full length of the existing tube. The high-pressure expansion makes “intimate” contact down the existing tube, and shielding it from corrosion.

- Curran provides tube cleaning; our grit blast prep optimizes liner and tube interface.
- Curran can hydraulically install liners in-situ, or at client fabrication location.

Curran International has an inventory of high-pressure pumps and expansion tools. We source tube stock from a wide network of domestic and international mills delivering ASME/ASTM grade material; MTRs are provided with all tubing.

ALLOY TUBE FERRULES & SLEEVES
Tube end ferrules and sleeves are a useful way to help stop inlet seizure and extend the life of existing tubes. Ferrules and sleeves are typically 6” to 18” long sections, cut to length and typically flared and chamfered at opposite ends.

Hydraulic expansion of tube end ferrules and sleeves is the premier method for installation:
- No single point of expansion; hydraulic method expands entire length in one operation.
- Minimal “work hardening,” less wall reduction compared to mechanical expansion.

EXCHANGER AND CONDENSER RETUBING
Curran International offers a turnkey solution for condenser tube replacement projects with qualified specialists experienced in all facets of tube removal, condenser restoration and tube installation.

Curran has the tooling and material handling equipment ready to mobilize to global project locations, and offers flexible project resource planning to optimize local labor resources.

CURRAN PROVIDES:
- Technicians and equipment for global mobilizations for condenser refit projects.
- Curran has earned NGBR “R” stamp for shop and field repair of code exchangers.
- Turnkey m-tube and epoxy coating project execution.

CURRAN EXCHANGER CLEANING
Curran International’s patented dry grit blast tube ID cleaning process has revolutionized how clients clean their tubes in preparation for Non-Destructive Evaluation (NDE). Compared to conventional tube cleaning, Curran cleaning offers predictable results, eliminates cleaning mud, and promotes high integrity inspection data collection.

Air coolers, shell & tube exchangers can be cleaned in-situ; dust abatement system ensures containment is vacuum tight. Curran is experienced with process air coolers, SRU reactors, boilers and condensers, all metallurgies and U tube exchangers. Curran techs visually confirm cleanliness, eliminating cleaning mud! Never again let “dirty tubes” compromise your FID inspections; NDE clean tubes are scour of tenacious scales, oxidation, and mineral scaling.

POWERS PLANT CONDENSERS AND EXCHANGERS
Power plant steam condenser cleaning is often an annual routine; Curran offers commercially practiced methods using projectiles (scrapers and scrubbers), and can provide Curran cleaning using dry grit blast where tenacious scales require specialized methods.

TURBINE GRIT BLASTING
Curran International provides on-site/in-situ dry abrasive surface prep of turbine components for NDE inspection. Since 1981 Curran has provided crews and equipment for power generation turbine outages, all work is performed using vacuum containment systems that protect disassembled equipment from nuisance dust and debris.

CURRAN CLEAN IS:
- Greater fill factor for NDE probes, better data accuracy
- Reduced background “noise,” faster technician analysis
- Complete waste containment, no nuisance impact

Global Supplier:
Contact Curran International for tube liner, ferrule and refit projects. We provide turnkey services globally.
CURRAN PROTECTIVE COATINGS FOR FIXED EQUIPMENT

CURRAN 500
An advanced two-part 100% solids epoxy, versatile formulations manufactured; high build trowel applied material, sprayable, and brush and roll coatings. Suitable for all power plant and chiller cooling water systems:
- Condenser, HVAC chiller tube sheets, waterboxes
- Circulation water piping, channels, marine bays

CURRAN 1000R
An advanced two-part 100% solids novolac epoxy, a brush and roll material for high temperature immersion service in cooling water, hydrocarbons and process streams. Temperature resistant in water, steam to 365°F (185°C); tolerates excursions/steam outs to +400°F (204°C). Suitable for:
- Condenser: tube sheets, waterboxes
- Circulation water piping, channels, marine bays

CURRAN 1500
A 100% solids hybrid novolac spray used to repair corroded steel, formulated to provide resistance in "cold wall" services, where coated substrate protects itself in hot immersion service and outer surfaces may be uninsulated. Tests cell tested six plus months de-ionized water at 211°F (99°C), pressurized Atlas Cell tested for 60 days de-ionized water at 365°F. When fully cured, 1500 is a machinable coating and can be used for flange repairs. Suitable for:
- Uninsulated vessels & pipe ID in hot immersion service
- Channels, binnets, restoration of pitted steel

CURRAN 1200
A high functionality two-part 100% solids novolac epoxy coating formulated for high-volume coating applications. Using a heated hose airless spray rig a single coat can be applied to 20-24 mils. May be used in tanks and vessels in hydrocarbon and solvent services, water/steam immersion temperature resistance to 365°F (185°C). Suitable for:
- Process vessels/hydrocarbon tanks
- Piping, channels, binnets

SERVICES LINE CARD

EXCHANGER TUBE ID AND OD COATINGS (STRAIGHT, U-TUBE, PLATE AND FRAME DESIGNS)
- Anti-foaming & corrosion protection for cooling water produced waters, process streams
- Ultra-thin hydrophobic and oleophobic release coatings (Sol Gels & PPA)
- High-temperature anti-cooling coatings
- Shop and field applications

EXCHANGER RESTORATION AND TUBE REPAIRS
- Full length alloy tube liner installation using hydraulic expansion
- Tube and erosion solutions: tube end ferrules, tube sleeves, tube end coatings
- Exchanger & condenser retrofitting ("W" Stamp certified)
- Exchanger tube ex-cell, tube leak chasing using pneumatic testing
- Tubeshell restoration using epoxy cladding

CORROSION RESISTANT PROTECTIVE AND SACRIFICIAL COATINGS
- 100% solids polymeric coatings and epoxy cladding systems
- Exchanger channels, tube sheets, binnets, vessels, tanks, water boxes, circulation water pipe
- Fluoropolymer coatings for corrosive services; PFA, FEP, ETFE, and PPS

ADDITIONAL SERVICES
- Thermal Spray/Metalizing: electric arc and gas combustion for CuI and "sacrificial" applications; applying nickel alloy and precious metals
- Pressure Vessel, Valve Internals, Process Tower, trays, packing and other internals

HEAD QUARTERS: Houston Texas
SHOP LOCATIONS: Houston, Edmonton, Rotterdam, Singapore
FIELD LOCATION: India, Saudi Arabia
CAPABILITIES: Globally

CURRAN IS APPLYING SOLUTIONS.
CURRAN INTERNATIONAL
4610 Vicksburg Lane,
Dickinson, TX  77539

HEADQUARTERS:
Houston, Texas

SHOP LOCATIONS:
Houston, Edmonton, Rotterdam, Singapore

Phone: 281.339.9993
Fax: 281.339.9994

CURRANINTL.COM