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Technical Reference

Topic: TECTRON™ Cell End User Benefits

LOW ELECTRICAL RESISTANCE

- The TECTRON Cells have 35% more membrane area than electrode area, resulting in less electrical resistance.
- TECTRON Cells require less voltage to operate and lower the paint bath cooling load.

NO "DIRT" FORMATION

- The TECTRON Cell's clean, small, and circular profile promotes excellent paint flow completely around the cell.
- TECTRON Cells, with appropriate membranes, can be used in place of bare electrodes (which are a large source of sludge that can create paint film defects).

ED FILM-BUILD CONTROL

- Desired film build can be achieved through proper selection of Cell materials and design, and electrical system integration.
- Uniform film build distribution can lower production costs.

LIGHTWEIGHT, TWO-PART DESIGN

- One person can safely remove the Electrode for routine inspections because it weighs less than 18 pounds.
- The Membrane Shell has a three-inch diameter and weighs less than 5 pounds. Its unitary construction has no bolts or joints, which are prone to leaks.

MONITORING SYSTEMS

- Sensors and other specialized tools can collect accurate data. This enables system operators to use SPC to forecast system maintenance and repair.

FAULT TOLERANT

- The TECTRON Cell is fault tolerant. If a Cell is shut down, there is only minimal loss of anode area and minimal stress on the surrounding Cells.

ACID BALANCE

- Reduced acid removal rates can be achieved by appropriate choice of membrane.
- Balance yields lower anolyte waste stream and less direct acid addition costs.

ADAPTABLE PLACEMENT

- Cells can be positioned easily in the ED tank to avoid conflict with eductor piping.
- Fully submergible Cells can be placed under or over the automotive body.

Think and act in a safe manner. Always disconnect power and use a lockout before you work on the E-coat system. Observe any confined space conditions. Use the appropriate safety equipment & clothing for the task.
UFS Corporation … dedicated to providing quality, innovative solutions to the electrocoating industry.