



HERE TO HELP



Restarting Your Anodes and Anolyte System after an Unexpected Shutdown

Specialists in Plant and Equipment for the finishing Industry

RESTARTING ANOLYTE SYSTEM AFTER UNEXPECTED SHUTDOWN:

Unexpected events may call for plants to be idled or closed down for many weeks. Electricity and a source of pure water may or may not be available during this period. In addition, the only persons who may be looking at the equipment on a regular basis are plant security personnel.

Best practices are to keep the ion - exchange membranes of the anodes wet and take steps to suppress the growth of biological organisms. Thus, keep the anolyte pump running 24/7 and use approved biocides on a rotating basis, or Ultraviolet bacteria control, so the organisms do not develop immunities.

Since the goal is to re-start the E-coat paint system once the plant is re-opened, what can or should be done before the plant is idled? This information will consider two scenarios.

First, electricity and pure water are available, and second, that there is no electricity or pure water available.

TASKS TO BE COMPLETED REGARDLESS OF SCENARIO:

Anode Cells should be full of anolyte or DI/RO water (Pure water).

Some fluid will be lost to evaporation; however, since the exposed surface area (i.e. inside the neck of the Tectron Cell) is low compared to its total volume of anolyte, evaporation should be at most, 1 or 2 inches per month.

An approved biocide should be added (at the upper end of the recommended dosage range) into the anolyte tank and allowed to mix for 4 hours (minimum) with the make up RO inlet water valve turned off.



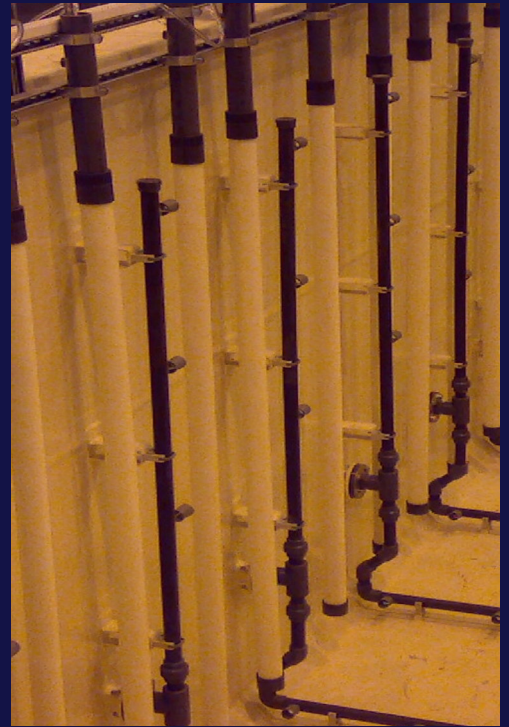
ELECTRICITY AND PURE WATER SUPPLY AVAILABLE:

Keep the anolyte pump running 24/7 in order to suppress the growth of biological organisms.

At some point, the effectiveness of the biocide may begin to degrade. If this begins to happen, add more biocide (again at the upper limit of the dosage range) and allow to mix. Repeat as often as necessary.

If more than 2 inches of liquid is lost in the anolyte tank, refill with pure water and add an appropriate amount of biocide based upon lost volume of anolyte since the last addition.

Alternativley if Ultraviolet bacteria control is used make sure that the quartz is cleaned and the system is left operational.



ELECTRICITY AND PURE WATER SUPPLY NOT AVAILABLE:

If the paint tank is drained, rinse the paint solids from the exterior of the anode cell with a pure water hose from the treated water holding tank (do NOT use a pressure washer as it can damage the fragile ion-exchange membrane).

Make sure the Anodes cells are left filled with pure water.

Upon restarting the system, drain and refill the anolyte tank with pure water and circulate through the anodes for 1 hour.

Drain the system completely and restart again with a fresh tank of pure water and circulate, adding approved chemicals to reach the

