

## Sugar Mill Juice Plate Heat Exchanger Rebuild



### PROBLEM

This sugar mill needed a solution for their press water heater. The area around the tubes had a ¼" to ½" of missing metal on the face plate of the heater and was getting worse.

They asked the USI Team for a solution to rebuild and protect it so they didn't have to pay to replace this unit.

### SUBSTRATE

Metal

### PRODUCTS USED

[USI Universal Cleaner](#)

[MBX Bristle Blaster](#)

[RES201 Ceramic Repair Paste](#)

[RES205 Ceramic HT Fluid](#)

### SOLUTION

First the area was cleaned with [USI Universal Cleaner](#).

Next the [MBX Bristle Blaster](#) was used to create a 2 ½" – 3" anchor pattern around the tubes where there was missing metal.

Then the USI Team used [RES201 Ceramic Repair Paste](#) to build up the areas around the tubes.

After allowing cure time for this material, 2 coats of [RES205 Ceramic HT Fluid](#) was applied. This product is designed for up to 300°F continuous emersion.