Repair of leaking horizontal multitubular Condensers

Application: Seal leaks between tube and endplate x 6
Place: Algeciras, Spain
Date: June 2010
Job and report done by: Local workshop and Wencon Denmark
Wencon products used: Hi-Temp, Cleaner, appl. tools
1. & 2.

Surface preparation: Old epoxy products removed from all 6 ends – all surfaces now clean and smooth. Photo clearly shows bi-metallic corrosion and leaks.

3. & 4.

To get as rough a surface as possible and in order to maximize adhesion, hi-pressure water/sand injector has been used, instead of grid blasting.

Thereafter cleaned and degreased - using Wencon cleaner.
5. & 6.
Before applying Wencon products, vacuum on the gas side is created.
Wencon Hi-Temp has been applied using a brush – here first layer.

7. & 8.
Between the layers, all Hi-Temp leftovers are removed from the tubes before curing.
After application, the Hi-Temp is left for curing Approx 18 hours, before test pressure.
Final result.

After curing, coolers were tested by the crew.
Pressure: 5 bars and no leaks.