Belzona apply Internal Lining to Heat Exchanger Shell
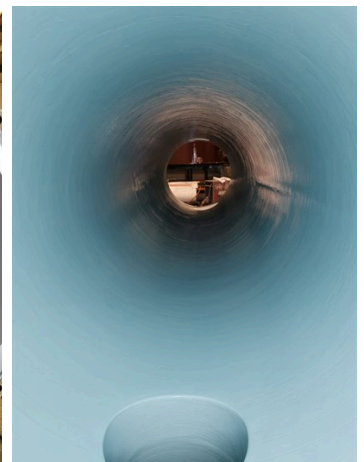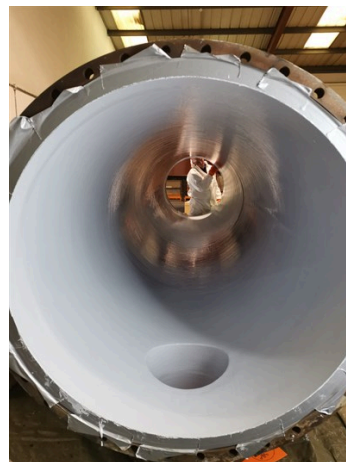
Industry:	Oil & Gas	Customer Location:	Oil refinery, North West England
Application:	HEX-Heat Exchangers	Application Date:	February 2019
Substrate:	Steel		
Products:	* Belzona 1511 (Super HT-Metal) ,		
	* Belzona 1593 ,		

Problem

Internal corrosion to the internals of a heat exchanger

Photograph Descriptions

* Equipment delivered to Belzona Technosol workshop ,
* Extent of the damage ,
* First coat of Belzona 1593 ,
* Second coat Belzona 1593 ,

Application Situation

The client had a heat exchanger which was suffering from internal corrosion. They required a solution to repair the internal damage and then apply a suitable internal lining to protect the shell from further damage and extended the equipment's life span.

Application Method

The heat exchanger was dismantled and delivered to the Belzona workshop in to two parts - the main shell and the dome end.   The internal substrate was grit blasted in our workshop under controlled conditions. The pitted steel within the shell was then repaired using Belzona 1511. Following this two Belzona 1511 Nozzle Inserts were bonded into both drain and vent nozzles on the cap end, guaranteeing total encapsulation within these areas.   Following the repair, two coats of Belzona 1593 were applied to provide long-term protection. Completed in accordance with Belzona System Leaflet HEX-03

Belzona Facts

The client selected to use Belzona as they were able to provide a full quality assurance package with the job, along with their comprehensive health and safety credentials. They were very pleased with the repair and protection of the equipment and on completion of the application commented on the professionalism of the application team.