



CORROCOAT EGYPT - Case study

Internal and external lining of Cation Exchanger Regeneration

Reference No.: 001PG_01_ref_vessel

Client: Amreya Petroleum Refining Company, Alexandria, Egypt

Application date: January 2010

Scope of work: After taking down current hard rubber and 3 badly corroded parts rewelded, internal of the vessel protected against Sulphuric Acid 15% concentration attack at 60°C temperature, pressure 5 bars, using CORROCOAT materials: primer PPA, Polyglass Pipe Grade for 296 vertical hole of nozzle plate (hot spot of job), Corrofill, Polyglass VEF, Polyglass Veil Coat. Postcured. External protected by Plasmet ZF.

A.P.R.C. ANOMALY REPORT - under corroded hard rubber, vessel out of service





01 - CORROSION INSPECTION

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Under corroded hard rubber lining and deep corroded areas (pitting corrosion)



01 - CORROSION INSPECTION

Three very badly corroded areas





02 - SURFACE PREPARATION

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Removal of hard rubber by grinding method



02 - SURFACE PREPARATION

Removal of hard rubber from 296 nozzle holes by hammering and burning method



02 - SURFACE PREPARATION

Surface after hard rubber removal



02 - SURFACE PREPARATION

Process of rewelding



02 - SURFACE PREPARATION

Grid blasting to clean metal Sa2 ½ with profile roughnes min. 50 microns



02 - SURFACE PREPARATION

Grid blasting to clean metal Sa2 ½ with profile roughnes min. 50 microns





03 - CORROCOAT APPLICATION

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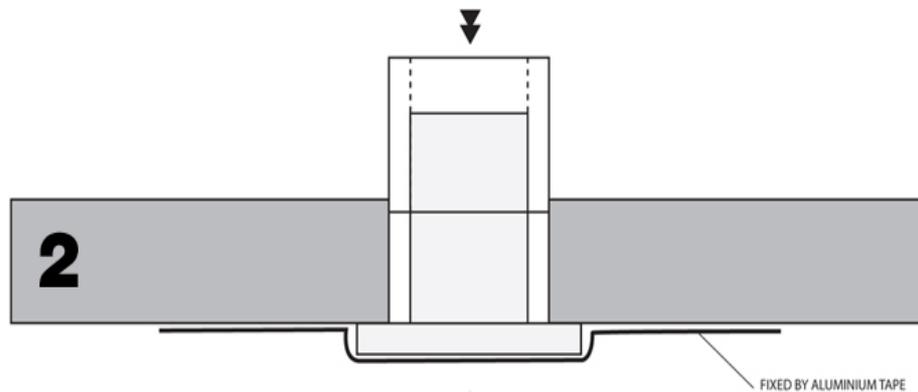
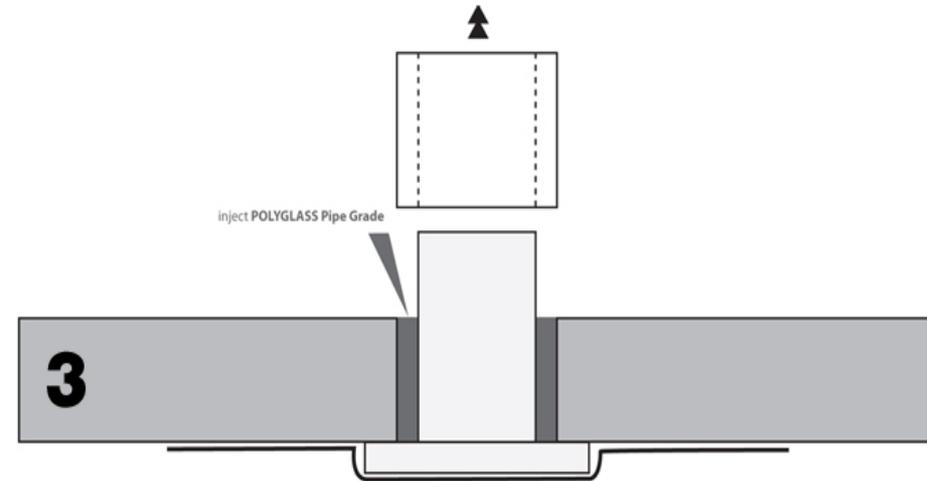
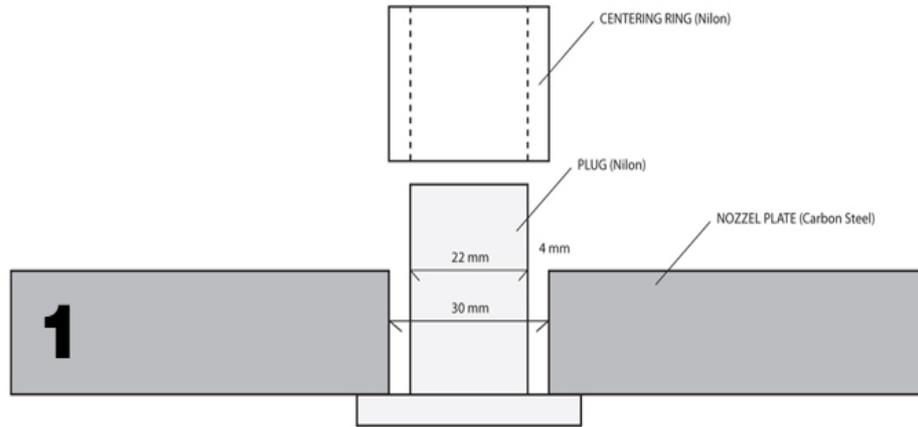
Priming by PPA, reparations by CORROFILL



03 - CORROCOAT APPLICATION

Coating method of 296 nozzle holes

Coating method of nozzle holes 2



03 - CORROCOAT APPLICATION

Injection coating of POLYGLASS VE PG to 296 nozzel holes



03 - CORROCOAT APPLICATION

vertical surface of 296 nozzel holes coated by 4000 microns of POLYGLAS VE PG



03 - CORROCOAT APPLICATION

Sparying of POLYGLASS VEF



03 - CORROCOAT APPLICATION

Sparying of POLYGLASS VEF to accessories parts and external PLAZMET ZF



03 - CORROCOAT APPLICATION

Postcuring, DFT test, Spark test, Finishing

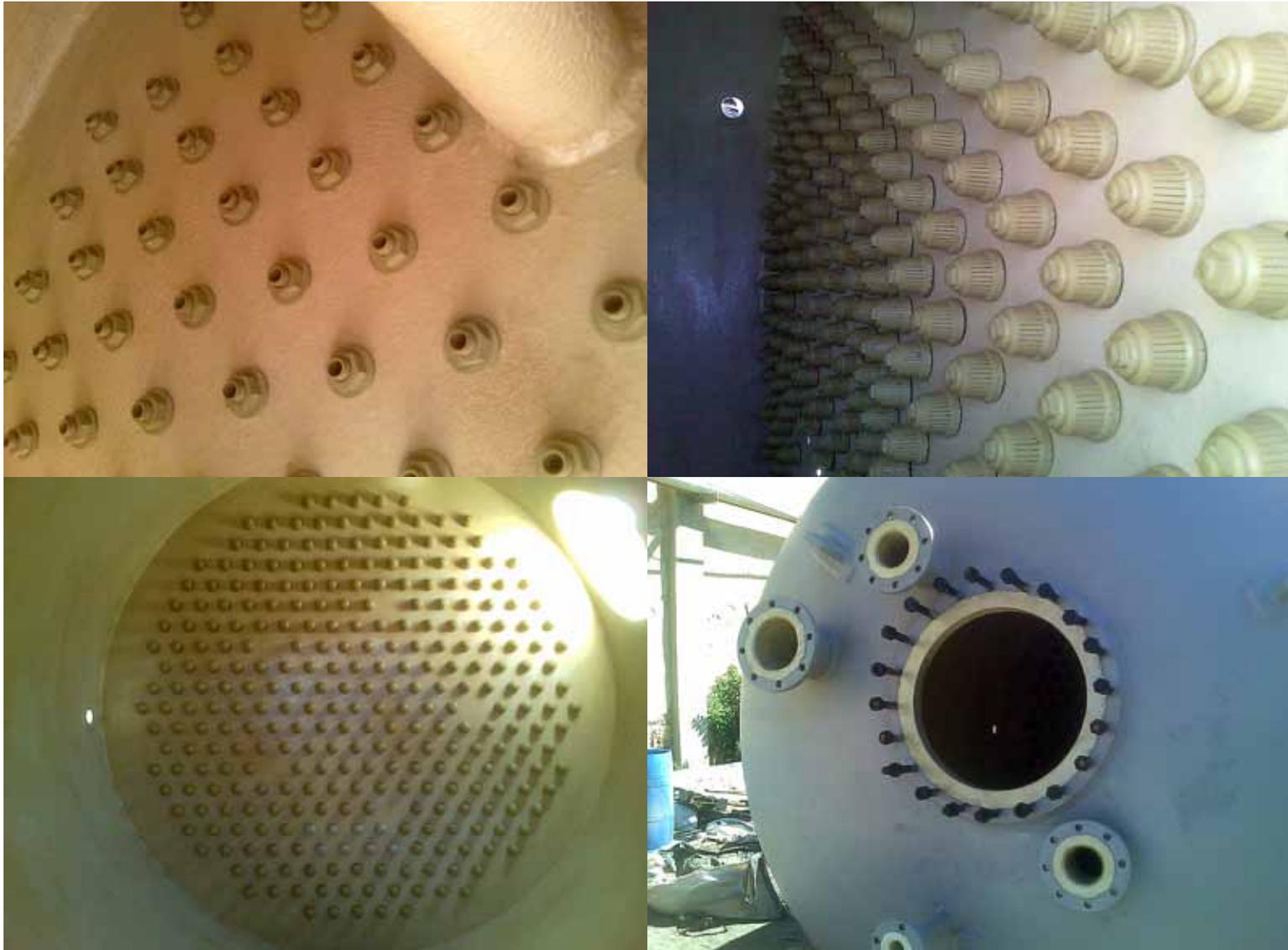


Internal and external lining of Cation Exchanger Regeneration



NEW FOR OLD

Internal and external lining of Cation Exchanger Regeneration – nozzels inst.



NEW FOR OLD

Internal and external lining of Cation Exchanger Regeneration - back in service



NEW FOR OLD

Evaluation

Internal and external lining of Cation Exchanger Regeneration

Taking down hard rubber: 18 days

Surface preparation / application works: 8 days

Guarantee: 2 years

Expected service life: 4-8 years



Thank You

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