

REPAIR REFURBISH RECLAIM PROTECT

File 119: Resimetal 101 Metal Repair Paste, a high strength composite used as a proven solution in **Plate Bonding** to damaged tanks. CUI was caused by outdated rockwool and cladding system that caused severe corrosion, deep pitting, and metal loss.

Renroc ESP specialises in the refurbishment of previously insulated (rockwool/clad) process Plant and Equipment damaged by undetected **C**orrosion **U**nder **I**nsulation.

The NaOH tank was stripped of the rockwool and lagging, and metal thickness testing was done across the tank. The worst of the pitted zones were prepared to Sa3 White metal cleanliness with a surface roughness profile of 75 microns (peak to valley) depth. This was achieved by using purpose designed Bristle Blaster power tools in situ without the dust and grit associated with Abrasive Blasting.

Renroc ESP specialist Technician prepared and applied the high strength Resimetal 101 Metal Repair Paste in situ to the prepared areas. It was also applied to the underside of specially made sections of metal plates which were wet fitted and attached the worst areas of concern as the Demin plant couldn't afford to shutdown these tanks and their process.

Also ask about Renroc ESP's Plate Bonding Solutions for tanks, pipes and vessels that are breached and need to be sealed and reinforced. This plate bonding service is a cold process, does not involve hot work and can seal systems before they are coated with proven Resichem Thermal Insulation Composite Coatings. that eradicate CUI that is associated with and inherent with traditional rockwool and cladding.

Contact Renroc ESP (Division of AFH Pty Ltd)
for a specialised surface solution consultation

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1. Outdated rockwool insulation and cladding completely masks CUI and the damage can be catastrophic as cladding allows seepage and the rockwool absorbs and holds in the moisture and promotes undetected CUI



2. The affected metal surface was extensively pitted and dangerously low in thickness in some areas with deep pitting and metal loss. Once determined it was structurally sound it was then Bristle Basted and ready for specialist Renroc ESP Plate Bonding process. The surface preparation was to our specification of Sa3 White Metal cleanliness and 75 Micron surface roughness/profile depth.



3. The metal plates were also overcoated and fully encapsulated for additional strength and durability. This Renroc ESP method and service saved the Power Station expensive shutdown time and money as well as eliminating any safety/environmental issues associated with leakage of NaOH from these tanks..