



CORROSERV (M) SDN BHD

CASE HISTORY ~ CH0292

ONLINE LEAK SEALING AND REHABILITATION OF 32" QUENCH WATER PIPELINE

THE CHALLENGE: Previously, one of 32" quench water pipeline was damaged with pinhole leak near socket weldment and need to be repaired online. Their in-house contractor has attempted to solve the problem; however, they were unable to stop the leak. Client has then contacted and requested Corroserv (M) to propose a repair system that can be applied online to stop the leak and rehabilitate the defect area of the pipe to its design pressure and temperature.

Defect	: Pinhole leak
Design Pressure	: 4.0 Bar
Operating Pressure	: 0.6 Bar
Design Temperature	: 150°C
Operating Temperature	: 90°C
Pipe Size	: 32"
Medium	: Quenching Water (Containing Benzene)

THE SOLUTION: Corroserv (M) Sdn Bhd proposed composite system Corro-Wrap™ Wet Lay-Up (WL) using CRBX800 + Corro-Dur™ 2000 to solve this problem. The composite system was applied online with surface preparation according to SSPC-SP11 standard by utilizing non-sparking pneumatic tools. Details of the applied system are as follow:

Surface Preparation:	: SSPC-SP11 (power tool cleaning to bare metal)
Infill/Leak Sealing:	: Steel belt lined with CRS-8 sealant + quick seal tape
Rebuilding	: Corro-Dur™ 2000
Interface	: Corro-Dur™ 2000
Composite System	: CRBX800 + Corro-Dur™ 2000 (R) (0.7mm/layer) (23 layers)
Top Coat	: Corro-Dur™ 2000



Figure 1.0: Condition of the leak prior to repair application



Figure 2.0: Condition of the pipe after wrapping and topcoat

*APPLIED SYSTEM:
CORRO-WRAP™ WET LAY-UP*

*YEAR:
2021*

*LOCATION:
KERTEH, TERENGGANU*

NO SEA TOO DEEP, NO JOB TOO TOUGH!