



CORROSERV (M) SDN BHD

CASE HISTORY ~ CH0267

LEAK SEALING AND REHABILITATION OF 8” WATER PIPELINE

THE CHALLENGE: Previously, their one 8” water pipeline was leak on the weldment joint. They decided to stop the line and inviting us to solve their problem. Therefore, they need information on the available repair system that can seal the leak and rehabilitate the defect area of the pipe to its operating pressure and temperature. Based on the job done, the repair parameter is as listed below:

Pipe OD	: 8”
Operating Temperature	: 35°C
Operating Pressure	: 15 Bar
Medium	: Water
Defect type	: 5mm Hole

THE SOLUTION: Corroserv (M) Sdn Bhd proposed composite wet lay-up system using CRBX600 saturated with Corro-Dur™ 192L as the composite system to solve this problem. The formulation is solvent-free to avoid the objectionable odour and explosion hazards of epoxy solvents. The system was applied online with surface preparation according to SSPC-SP3 standard by power tools cleaning. Details of the applied system are as follow:

Surface Preparation	: SSPC-SP3 (Power Tool Cleaning)
Infill & Rebuilding	: Corro-Dur™ 563
Interface	: Corro-Dur™ 563
Composite System	: CRBX600 + Corro-Dur™ 192L (0.5mm/layer) - 8 layers (4mm)
Top Coat	: Corro-Dur™ 290



Figure 1.0: Condition of initial defect



Figure 2.0: Condition of pipe after composite wrapping and top coat application

APPLIED SYSTEM:
CORRO-WRAP™ WET LAY-UP

YEAR:
2021

LOCATION:
KLANG, SELANGOR

NO SEA TOO DEEP, NO JOB TOO TOUGH!