



CORROSERV (M) SDN BHD

CASE HISTORY ~ CH291

LEAK SEALING AND REHABILITATION OF 3” STEAM PIPE

THE CHALLENGE: Previously, one of their 3” steam pipeline has failed at the weldment with crack line leak and need to be rehabilitated. Therefore, they need information on the available repair system that can rehabilitate the defect area of the pipe to its operating pressure and temperature.

Pipe Nominal Size	: 3”
Pipe Material/ Rating	: Carbon Steel, assumed SCH40
Operating Pressure	: 3.2 Bar
Operating Temperature	: 175°C
Medium	: Steam
Defect type	: Crack line leak at weldment approx. 2mm length



Figure 1.0: Defect on the pipe – crack line leak at weldment

THE SOLUTION: Corroserv (M) Sdn Bhd proposed composite Wet Lay-Up System using CRBX800 saturated with Corro-Dur™ 2000 as the composite system to solve this problem. The system was applied on surface prepared according to SSPC-SP2 standard by utilizing hand tools. Details of the applied system are as follow:

Surface Preparation	: SSPC-SP2 (Hand Tool Cleaning)
Infill/ Leak Sealing	: Hose clip lined with rubber pad
Rebuilding	: Corro-Dur™ 2000 (C)
Interface	: Corro-Dur™ 2000 (C)
Composite System	: CRBX800 + Corro-Dur 2000™ (R) (0.7mm/layer) (4 layers)
Top Coat	: Corro-Dur™ 2000 (C)



Figure 2.0: Condition of the pipe after wrapping and topcoat

APPLIED SYSTEM:
CORRO-WRAP™ WET LAY-UP

YEAR:
2021

LOCATION:
PASIR GUDANG, JOHOR

NO SEA TOO DEEP, NO JOB TOO TOUGH!