

CORROSERV (M) SDN BHD

CASE HISTORY ~ CH0203

LEAK SEALING AND REHABILITATION OF 3" ELBOW PIPE

THE CHALLENGE: Currently, one of their 3" elbow pipe was leaking. Therefore, they requested us to propose a suitable repair system to rehabilitate the pipe to its design pressure and temperature.

OD Pipe Size	: 3.5"
Design Pressure	: 840 psig (57.92 Bar)
Operating Pressure	: 672 psig (46.33 Bar)
Design Temperature	: 260°C / 0°C
Operating Temperature	: 20°C - 250°C
Medium	: Process Gas

THE SOLUTION: Corroserv (M) Sdn Bhd proposed composite wet layup system together with our solvent free Corro-Heat 206 as the resin system to solve this problem. Corro-Heat 206 has a high temperature resistance until up to 260°C, which makes it ideal for this case. The system was applied with surface preparation according to SSPC-SP1 using Bio Rust-Off and SSPC-SP11 standards using Ex-Certified Safety Tools. Details of the applied system are as follow:

Infill & Rebuilding	: Corro-Heat 206	
Interface	: Corro-Heat 206 at average thickness of 500µ	
Saturating Resin	: Corro-Heat 206	
Composite System	: CRBX 650 (0.55mm/layer, 10 layers)	
Top Coat	: Corro-Heat 206 at average thickness of 400μ	



Figure 1.0: Initial condition of 3" elbow pipe



Figure 2.0: Visual of applied repair system on the 3" elbow pipe prior to top coat application

APPLIED SYSTEM:	YEAR:	LOCATION:
$CORRO ext{-}WRAP ext{TM}$ WET LAY-UP	2018	KELANTAN

NO SEA TOO DEEP, NO JOB TOO TOUGH!