



# CORROSERV (M) SDN BHD

## CASE HISTORY ~ CH247

### REHABILITATION OF 14" PRODUCTION GAS RISER (SPLASH ZONE & UNDERWATER)

**THE CHALLENGE:** Currently, one of client's 14" production gas riser is corroded with coating defect where the repair area extends from splash zone into underwater below low tide level. Therefore, they need information on the available repair system to rehabilitate the defect area of the riser to its design pressure. Based on the job done, the repair parameter listed as below:

<b>Pipe External Diameter</b>	14"
<b>Design Temperature</b>	121°C
<b>Operating Temperature</b>	70°C
<b>Design Pressure</b>	91.8 Bar
<b>Operating pressure</b>	16 Bar
<b>Medium</b>	Production Gas
<b>Repair Length</b>	2 m (Splash Zone), 3 m (Underwater)

**THE SOLUTION:** Corroserv (M) Sdn Bhd proposed two different systems of composite wrapping to accommodate both splash zone and underwater area. The details as follow:

Area	Splash Zone	Underwater
<b>Surface Preparation</b>	SSPC-SP11 (MBX Bristle Blaster)	SSPC-SP3 (Power Brush)
<b>Interface</b>	Corro Chem 330 HHA	Corro Dur 2000
<b>Composite System</b>	CRBX650 + Corro Chem 330 HHA (5 Layers)	Aqua Wrap (8 Layers)
<b>Top Coat</b>	Corro Chem 330 HHA	Corro Dur 2000



Figure 1.0: Condition of splash zone area after composite wrapping application



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

APPLIED SYSTEM:  
CORRO-WRAP WET LAY-UP / AQUA WRAP

YEAR:  
2019 & 2020

LOCATION:  
VIETNAM

*NO SEA TOO DEEP, NO JOB TOO TOUGH!*

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