

Oil Review

Oil · Gas · Petrochemicals

Middle East

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The onward march of
digitalisation

- ➔ ADNOC pursues groundbreaking initiatives
- ➔ Fire-safe materials for the oil and gas industry
- ➔ Oil residue deep conversion
- ➔ Non-destructive testing to save assets and lives
- ➔ Injecting new life into deepwater wells
- ➔ ADIPEC Preview

SEE US AT THE SHOW:



أديبك
ADIPEC
Abu Dhabi International Petroleum
Exhibition & Conference
12 - 15 November 2018

21
Years

Serving the
regional oil
& gas sector
since 1997

The way ahead for composite repair

VINCENT RIBOULEAU, Sales Manager Middle East at 3X ENGINEERING, speaks about pipeline repair using composite solutions.

Composite repair is now established in the oil and gas industry. How can you simply describe the key features and benefits of this technology?

Indeed, our clients are using REINFORCEKIT® 4D, our composite wrapping solution, for three simple reasons. The first one is the wide type of defects which can be reinforced, such as external or internal corrosion, hole, crack but also dent or weld defect. The second reason is the advantage in terms of application, in different environments onshore, offshore or even subsea. The last one is for cost impact. Almost all our repairs are done online and under pressure. In case of shutdown for a hole reinforcement the shutdown is very limited, with in any case a simple logistics base.

What are the new challenges for a company like 3X ENGINEERING?

Each repair is a challenge in itself. As we are complying with ISO 24.817 or ASME PCC-2, we are considering each single repair as unique with its own specifications. However, 3X ENGINEERING considers that the most

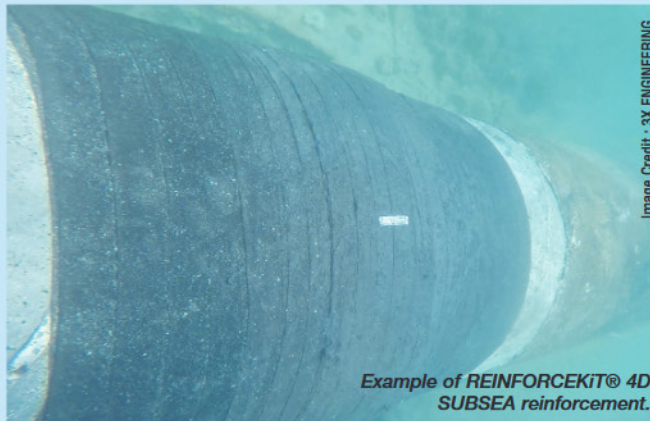


Image Credit : 3X ENGINEERING

Example of REINFORCEKIT® 4D SUBSEA reinforcement.

challenging activity remains subsea in harsh environment with limited time of application to reduce to the maximum the cost of implementation. We have given the priority in our technical development to Innovation. Today we have specific tools for subsea application, we have some partnerships with top ranking oil companies such as TOTAL and Equinor and EPCs such as Saipem for the development and the application of our composite solutions in deep sea and cold environments.

You are talking about innovation. How is it impacting your activity?

Innovation is the key word of our company. We have developed unique solutions to seal pipe leaks online with STOPKIT® or TANKIT® for tank repair. Then we have enlarged the application of composite subsea with severe defects like the repair we made in Middle East on a 32" pipe suffering from leaking cracks at 80 bar and 70-metre depth. Deep sea is our next step but we are going even further soon with an intelligent repair: a communicating tape with impressive features in the application and data collection during the life cycle of the repair.

Stand: 9338



Composite Repair Specialist

REINFORCEKIT® 4D

PIPE REPAIR
ONSHORE & SUBSEA



**REINFORCEKIT®
PATCH & TANKIT®**

TANK REPAIR
& LEAK SEALING



STOPKIT®

ONLINE
LEAK SEALING



ROLLERKIT®

PIPE & SUPPORT
PROTECTION



REFLANGEKIT®

ONLINE REPAIR FOR
SF6 LEAKING FLANGE



**REINFORCEKIT® BEAM
& DKIT®**

STEEL BEAM REPAIR
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