SIKA AT WORK
SMDP-B PLATFORM CONDUCTOR REPAIR, LABUAN, MALAYSIA

OFFSHORE & MARINE CONSTRUCTION
CONVENTIONAL ENERGY

BUILDING TRUST

SMDP-B PLATFORM CONDUCTOR REPAIR, LABUAN, MALAYSIA

PROJECT DESCRIPTION

In September 2012, Sika worked alongside PetroUsaha Engineering Services Sdn. Bhd. to carry out the structural reinstatement of five conductors on the SMDP-B platform at the Samarang Oilfield, offshore Labuan, Malaysia. The conductors exhibited significant corrosion, particularly in the splash zone, compromising both their structural capacity and the integrity of the inner casing.

Sika was engaged to deliver a well integrity solution using high-performance grout and external reinforcement – restoring full design strength and extending the service life of the wells.

Project name:	SMDP-B Platform Conductor Repair
Client:	Petronas Carigali
Location:	Samarang Oilfield, Labuan, Malaysia
Year:	2012
Application:	Well integrity
Product:	SikaGrout®-9970

PROJECT REQUIREMENTS

With visible corrosion on the outer conductors and exposure of the internal casings, the risk of structural failure was high. The client required a diver-free solution to restore strength and protect the conductor assemblies from further degradation.

A non-invasive approach was needed that could be executed from the platform itself and deliver durable results across all five wells within a limited offshore window.

SIKA SOLUTIONS

Sika supplied 64 metric tons of SikaGrout®-9970, a UHPC material specifically engineered for offshore structural repairs. To restore structural performance, vertical steel rebars were installed along each conductor to reinstate bending moment capacity. The rebar cage also met minimum requirements for crack control within the grout.

Before grouting, marine growth was removed using ultra-high-pressure water jetting and Barracuda cleaning tools to ensure full bonding between the grout, steel rebars, and conductor surface.

Each conductor was encapsulated in a custom-designed external mould, which extended from the spider deck to 3 meters below mean sea level. The repair was executed without diver involvement, with all works conducted from the platform deck.

Once in place, the grout was injected into the moulds to encapsulate the conductors and casings, restoring their full structural design strength and providing long-term corrosion protection.

CUSTOMER BENEFITS

Sika's engineered solution enabled the client to perform a permanent, diver-free conductor repair that restored strength and mitigated further corrosion. The use of SikaGrout®-9970 ensured high early strength and excellent bond performance, even in the harsh offshore environment.

This cold-work approach minimized risk, reduced project duration, and allowed for consistent execution across multiple wells – all while extending the operational life of the platform's well infrastructure.

SIKA SERVICES AG
Tueffenwies 16
CH-8048 Zurich
Switzerland

Contact
Phone +41 58 436 40 40
www.sika.com

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