



SIKA AT WORK

PROVISION OF GROUTING
EQUIPMENT AND SERVICES
FOR CONDUCTOR REPAIR
CORROSION PROTECTION,
MALAYSIA

OFFSHORE & MARINE CONSTRUCTION
CONVENTIONAL ENERGY

BUILDING TRUST



PROVISION OF GROUTING EQUIPMENT AND SERVICES FOR CONDUCTOR REPAIR CORROSION PROTECTION, MALAYSIA



PROJECT DESCRIPTION

Between September and October 2018, Sarawak Shell Berhad engaged Sika to execute critical repair and strengthening works on conductor casings located offshore Sarawak, East Malaysia. The project involved both structural repairs and corrosion protection measures across two offshore platforms, ensuring the integrity and extended service life of key well infrastructure.

Sika was responsible for delivering a comprehensive solution, from design and engineering through to offshore execution, using high-performance grouting technology and innovative installation techniques.

Project name: Provision of Grouting Equipment and Services for Conductor Repair Corrosion Protection
Client: Sarawak Shell Berhad
Location: Offshore Sarawak, East Malaysia
Year: 2018
Application: Repair and maintenance
Product: SikaGrout®-9110, SikaGrout®-9970

PROJECT REQUIREMENTS

Inspections revealed significant corrosion and structural concerns in conductor casings on the F23 and F06 platforms. The client required a permanent repair method that could restore the mechanical strength of the conductors while preventing further deterioration from the harsh offshore environment.

Given the very low clearance between sea level and the spider deck – only 1.5 meters – traditional repair methods were impractical. The solution needed to be executed without diver intervention and with minimal disruption to ongoing platform operations.

Any product name or reference reflects the Sika product name at the time of creation of this document and may differ from the product name or reference during past events.

Our most current General Sales Conditions shall apply. Please consult the most current local Product Data Sheet prior to any use.



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SIKA SOLUTIONS

Sika began with detailed structural inspections of the F23 and F06 platforms to collect critical data for engineering assessments. Based on these evaluations, the engineering team designed customized rebar cages, seat collars, and lightweight formwork molds for the repair of the WH114 conductor.

Sika supplied and installed 8 metric tons of SikaGrout®-9110 and 5 metric tons of SikaGrout®-9970, both ultra-high performance cementitious (UHPC) grouts renowned for their exceptional strength, low permeability, and superior bonding characteristics. Cleaning and grouting services were performed on the WH104 conductor casing at Platform F23 DP-A and on the WH110 conductor casing at Platform F06 to deliver robust corrosion protection.

The team overcame the challenge of limited working space near the spider deck by utilizing specialized water jet systems, lightweight molds, and an exclusive locking mechanism for the seat collar. These innovations enabled diverless installation and safe removal of the molds after curing.

CUSTOMER BENEFITS

Sika's advanced UHPC grouting solution provided permanent structural repair and effective corrosion protection, significantly extending the service life of the conductor casings. The grouted sleeves enhanced structural capacity while the ultra-dense grout matrix arrested further corrosion progression.

For this type of offshore corrosion challenge, Sika's UHPC grouting system proved to be the most cost-effective and technically efficient solution available, allowing the client to safeguard vital offshore infrastructure without requiring divers or interrupting production operations.