



SIKA AT WORK

GROUTING AND INSTALLATION OF 2 CLAMPS AT KAB-C STRUCTURE, MEXICO

OFFSHORE & MARINE CONSTRUCTION
CONVENTIONAL ENERGY

BUILDING TRUST



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For illustration purposes only. Images are not from the actual project.

PROJECT DESCRIPTION

In June 2018, Sika was contracted to carry out offshore clamp grouting works at the KAB-C structure in the Gulf of Mexico. The project involved the installation and grouting of two high-performance clamps to secure an additional structural element to an existing subsea jacket, supporting the continued operation and modification of the offshore asset.

The works were executed offshore under live platform conditions for PEMEX, with Sika engaged by PROTEXA to deliver the grouting installation services.

This project represented one of the early applications of grouted clamp technology in Mexico, requiring a high-performance cementitious solution capable of delivering reliable load transfer, dimensional tolerance, and long-term durability in an offshore environment.

Project name: KAB-C Structure Clamp Grouting
Location: Offshore Gulf of Mexico, Mexico
Year: 2018
Contractor: Protexa, S.A. de C.V. (PROTEXA)
Customer: Petróleos Mexicanos (PEMEX)
Application: Jacket installation
Product: SikaGrout®-9110

PROJECT REQUIREMENTS

The scope required the secure installation of two structural clamps to fix an additional structure onto an existing offshore jacket. The grouting solution had to accommodate construction tolerances, ensure full load transfer between clamp and structure, and provide long-term performance under offshore exposure conditions.

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.

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Key requirements included rapid installation offshore, controlled grout placement, and high early and long-term strength to minimize installation time and reduce operational impact. All works had to be executed using compact offshore equipment and qualified personnel, with strict attention to safety and quality control.

SIKA SOLUTIONS

Sika supplied and installed SikaGrout®-9110, a high-performance cementitious grout specifically suited for offshore clamp grouting applications. The material was selected for its excellent flow characteristics, high strength development, and ability to accommodate large clearances while maintaining reliable structural bonding.

The scope included the mobilization of offshore grouting equipment, consumables, and a dedicated grouting spread, together with experienced offshore grouting personnel. Sika executed the supply and injection of grout into both clamps, ensuring complete filling and controlled placement to achieve the required structural performance.

All offshore activities, from the equipment mobilization to the grout injection, were carried out efficiently and safely, supporting accurate installation and minimizing offshore execution time.

CUSTOMER BENEFITS

The use of grouted clamp technology significantly reduced installation time compared to conventional mechanical fixing methods. The ability of the grout to accommodate larger tolerances reduced sensitivity to irregularities, thereby improving installation accuracy and lowering the risk of rework.

By streamlining the offshore installation process and reducing execution complexity, the solution delivered measurable cost and time savings for the client. The successful completion of this project further demonstrated the viability of clamp grouting as an effective structural modification method for offshore assets in the Gulf of Mexico.

This project marked one of the earliest implementations of grouted clamp installation in Mexico and showcased Sika's capability to deliver specialized offshore grouting solutions for complex structural strengthening applications.

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