



SIKA AT WORK

GROUTING SERVICES FOR MOORING YOKE BASE, CELSE PROJECT, BRAZIL

OFFSHORE & MARINE CONSTRUCTION
CONVENTIONAL ENERGY

BUILDING TRUST



GROUTING SERVICES FOR MOORING YOKE BASE, CELSE PROJECT, BRAZIL



PROJECT DESCRIPTION

Sika was engaged to deliver offshore UHPC grouting services for the installation of a subsea mooring yoke base as part of the CELSE Project, offshore Sergipe, Brazil in May 2019. The greenfield installation formed a critical component of the offshore mooring system, requiring high-performance grouting to secure the piled yoke structure and ensure long-term structural integrity.

Sika was contracted by Sapura Brazil to supply materials, specialist equipment, and experienced offshore personnel for the execution of the grouting works. The scope included grouting of three pile-sleeve connections on the subsea mooring yoke base under offshore environmental conditions.

Project name: Grouting Services for Mooring Yoke Base,
Celse Project, Brazil
Location: Offshore Sergipe, Brazil
Year: 2019
Contractor: Sapura Brazil
Application: Jacket installation
Product: SikaGrout®-9500

PROJECT REQUIREMENTS

The project required the precise grouting of piled yoke connections using ultra-high-performance cementitious materials capable of delivering high strength, durability, and reliable load transfer in a subsea environment.

Given the offshore location and elevated ambient temperatures, maintaining material performance prior to placement was critical. The scope also demanded robust offshore quality control, including on-site testing, to ensure consistent grout properties throughout the operation.

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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In addition, the project required the international mobilization of specialized equipment, materials, and personnel to a remote offshore location in Brazil, necessitating careful logistical planning and coordination.

SIKA SOLUTIONS

Sika provided a complete offshore UHPC grouting solution, including the supply of UHPC grout materials and lubricant, offshore grouting services, and dedicated specialist equipment. Chiller units were deployed offshore to control material temperature prior to grouting, ensuring consistent rheological properties during placement.

An offshore laboratory was mobilized to support real-time quality control and testing, enabling continuous monitoring of grout performance throughout the operation. Sika's experienced offshore grouting technicians executed the works, supported by a global technical and logistics team coordinating equipment, material supply, and manpower.

Through detailed planning and execution, Sika ensured reliable grouting of all three pile-sleeve connections, meeting the structural and performance requirements of the mooring yoke installation.

CUSTOMER BENEFITS

Sika's expertise in UHPC grouting for offshore applications enabled the successful execution of a technically demanding subsea installation in a remote location. Temperature control measures and on-site quality assurance ensured consistent grout performance, reducing risk during offshore execution.

By combining specialist offshore equipment, experienced personnel, and global logistical support, Sika delivered a robust and efficient grouting solution, supporting the safe installation and long-term performance of the mooring yoke base for the CELSE Project.