



SIKA AT WORK

JEONNAM OFFSHORE WIND FARM (KOREA) MOCKUP TRIAL, CHINA

OFFSHORE & MARINE CONSTRUCTION
RENEWABLE ENERGY

BUILDING TRUST



JEONNAM OFFSHORE WIND FARM (KOREA) MOCKUP TRIAL



PROJECT DESCRIPTION

The Jeonnam Offshore Wind Farm (Korea) mockup trial was conducted in China prior to the actual offshore campaign in South Korea to simulate offshore conditions and record data such as conveying, mixing, pumping, overall duration as well as QC testing of the grout material. Based on outcome, the offshore grouting plan was revised to achieve optimum results. The results also helped to refine the CFD model and verify grout line arrangements.

Project name: Jeonnam Offshore Wind Farm (Korea) Mockup Trial
 Location: China
 Year: 2023
 Application: Monopile foundations
 Product: SikaGrout® -9550

PROJECT REQUIREMENTS

Sika designed and commissioned fabrication of the large scale test specimens and grout lines with pile diameter equivalent to actual pile installed offshore. Sika supplied grout and grouting equipment was then used for:

- Grouting of annulus between inner pile and Rock
- Grouting of annulus between inner Pile and monopile



SIKA SOLUTIONS

Sika provided a total of 15 bags (127.5 MT) of SikaGrout®-9550 and used the newly built CPT 45 grouting spread for the first time. The CPT45 is a one-of-a-kind spread capable of producing up to 45m³ per hour using high density grout material and 8.5 MT UFIBC bags.

CUSTOMER BENEFITS

- The CPT45 delivers high volume pumping of UHPC materials for efficient pile grouting.

PROJECT PARTICIPANTS

Project owner: HESI (Hyundai Engineering Steel Industries)

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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