



**SIKA AT WORK**

**SIKA LIMITED (VIETNAM)**

**VARD CONSTRUCTION JETTY EXPANSION  
BA RIA – VUNG TAU, VIET NAM**

**BUILDING TRUST**



# JETTY CONSTRUCTION AS A SPECIAL CHALLENGE

## PROJECT DESCRIPTION

VARD Expansion of construction Jetty project. Vard Vietnam expanded its construction jetty at the Vung Tau shipyard to support increased production and handle larger and more complex shipbuilding projects. This expansion aligns with Vard's strategy to enhance capacity and boost output.

Location: No 6 Dong Xuyen Industrial Park, Rach Dua Ward, Vung Tau City, Ba Ria – Vung Tau, Vietnam.

Project Size: 12,737 m<sup>2</sup>

Structure: Jetty – PC Pile, PC Sheet Pile, Slab, Beam and Gantry Crane.

Timeline: 2022 – 2024

## SIKA SOLUTIONS

We provided samples for a mock-up, allowing the owner and contractor to evaluate the products before installation. And we also provided technical support that conducted comprehensive on-site training for the contractor to ensure proper application of Sika products from preparation, product mixing to application. We used Sikagard® for the jetty piles and showcased its advantages that are suitable for maintenance of splash and tidal zones, such as: deep penetration into concrete surface to avoid peeling; high build – can be applied up to 250 microns in one coat; excellent adhesion to wet surface; curing under water after application; curing at low temperatures.

We conducted Joint Inspection with our Client, Contractor and Applicator for the Construction Jetty Bottom Slab, Beams and PC Piles. Through that, we found the areas that need repairing such as: PC Pile damage coating; Un-treated concrete surface defects on both slab and beam like pinholes, bug holes, and honeycombs. This could have significant negative effects on the performance and durability of epoxy coating applied over them. To ensure a durable and effective epoxy coating, it is crucial to properly prepare the concrete surface by addressing these defects. Therefore, we used our innovative, high-performance refurbishment solutions, including Sika® Latex, Sika MonoTop®, Sika Refit®, SikaGrout® and Sikagard® for this project.

## PROJECT REQUIREMENTS/CHALLENGES

1. Ensure long-term protection against water infiltration and chemical exposure.
2. Balance between performance and affordability.
3. Provide value engineering options to optimize costs without compromising quality.
4. Technical Training On-site product application support before application and after application.

## PROJECT PARTICIPANTS

Client/Owner: Vard Vung Tau Shipyard

Consultant: PICON

Contractor and Applicator: Song Ngoc

## SIKA PRODUCTS

Sikagard® 61 TZ

SikaGrout®-214-11

SikaGrout®-214-11 HS

Sika MonoTop® R

Sika Refit®-2000

Sika® Latex

## KEY SUCCESS FACTORS

- We introduced our sika solutions directly to the project manager at Vard Vietnam, leading to a recommendation to the contractor.
- Facilitated discussions with both the owner and contractor to ensure alignment on project needs.
- Technical support conducted on-site training for the contractor to ensure proper application of Sika products.
- Sika's Joint Inspection with Client and Contractor Applicator (Construction Jetty Bottom Slab, Beams and PC Piles)



# MOCK-UP AND ON-SITE TRAINING



*Preparation*



*Product mixing*



*Application*



*After application*

**\*Note:** Photos were taken at the construction site by **Sika Limited (Vietnam)**.



# ON-SITE CONSTRUCTION



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



## SIKA LIMITED (VIETNAM)

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