



Hempel provides excellent protection for offshore platforms of COOEC-Fluor

COOEC-Fluor Heavy Industries Co., Ltd. (COOEC-Fluor) is the Sino-US joint venture enterprise between COOEC, controlled by China National Offshore Oil Corporation (CNOOC) and Fluor International. As one of the world's largest fabrication yards, COOEC-Fluor specializes in manufacturing floating facilities, fixed platforms, underwater products, process-modularized products, and other products used for offshore oil engineering. Since offshore oil facilities are subject to long-term and highly corrosive environments, the client needs a coating solution that can offer excellent anti-corrosion protection even in offshore corrosive environments.

Based on the needs of the client, Hempel recommended a solution with Hempaprime Strength that is designed to provide long-term protection for offshore oil&gas platforms. This product is suitable for environments with heavy corrosion such as splash zones and those with permanent immersion. Currently, Hempaprime Strength has been applied to CNOOC's offshore platforms including Huizhou 26-6, Dongfang 29-1, Panyu 10-1, Panyu 11-12, Wenchang 9-7, Wenchang 19-1, and Xijiang 30-2. It has been applied to areas including the splash zones of the jackets, atmospheric zones, and splash zones of the blocks.

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The Challenge

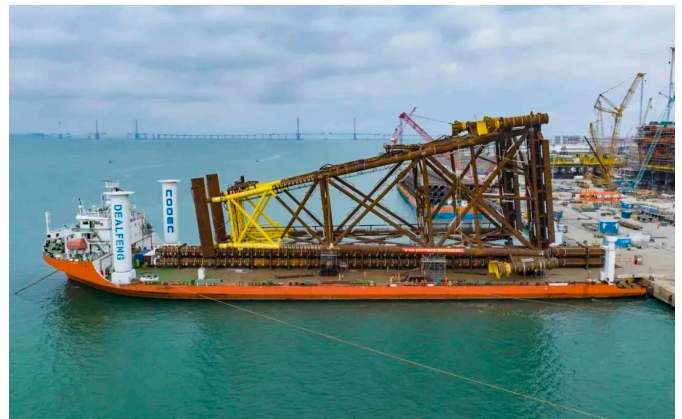
Offshore oil facilities are exposed to highly corrosive environments on the sea, with corrosive media such as water, oxygen, and salt accelerating the rate of corrosion. In particular, splash zones are the areas with the heaviest corrosion due to long-term alternation of drying and wetting by seawater. Therefore, the client has put great emphasis on the anti-corrosion protection of their numerous offshore oil equipment. Besides excellent anti-corrosion performance, easy application, quick drying, and environmental impact are also their priorities.

The Solution

In response to the needs of the client, Hempel provided Hempaprime Strength, an innovative coating solution. This product can provide long-term protection for offshore oil and gas platforms, not only suitable for environments with heavy corrosion such as splash zones but also suitable for those with permanent immersion. As a high-build and self-priming epoxy coating, Hempaprime Strength will form a wear-resistant and corrosion-resistant layer after curing. With reinforced glass flakes, this product offers superior resistance to wear and chemicals.

Hempaprime Strength can be applied by airless spray. With high volume solids, it is easy to apply. It's also a fast-drying coating which can improve production efficiency and help reduce costs. Besides, it is capable of reducing the impact on the environment and the risk of exposure for workers because of its low VOC content.

With excellent performance, Hempaprime Strength has been applied to CNOOC's series offshore platforms including Huizhou 26-6, Dongfang 29-1, Panyu 10-1, Panyu 11-12, Wenchang 9-7, Wenchang 19-1, and Xijiang 30-2. It has been applied to areas including the splash zones of the jackets, atmospheric zones, and splash zones of the blocks, providing excellent protection for these offshore platforms in the coming years.



At a glance	
Location:	China
Project:	Offshore platforms: Huizhou 26-6, Dongfang 29-1, Panyu 10-1, Panyu 11-12, Wenchang 9-7, Wenchang 19-1, and Xijiang 30-2.
Product:	Hempaprime Strength
Applied area	Splash zones of the jackets, atmospheric zones, and splash zones of the blocks
Year:	2023 - 2024

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