

# SPLASH ZONE

Momentum Engineering called in Alocit Systems when problems arose with the original coating on a Turkish Petroleum offshore gas platform in the Sea of Marmara, Turkey. Momentum, specialists in offshore oil and gas rig design and installation, needed a tough, environmentally friendly coating that could be applied in the splash zone on areas of the superstructure that were unexpectedly exposed.

The superstructure had been brought overland in sections and coated before installation in approximately 145 feet of water. When the main platform was submerged the mud-mat over which it was situated proved to be significantly deeper than expected. The 5 feet depth of the mud-mat meant that an area, from a depth of 3 feet to two feet above the surface, required a coating to match the yellow top coat on exposed areas of legs and struts painted black because they had been expected to be below the surface.

Alocit 28.15 was chosen for its outstanding performance in wet and moist conditions, its long-term record around the world in environmentally sensitive areas and for its ease of use.

First, all the affected legs and struts were cleaned by divers using grit-blasting to remove marine growth and provide a surface profile for the Alocit System.

Following the cleaning The superstructure had been brought overland in sections and coated before installation in approximately 145 feet of water. When the main platform was submerged the mud-mat over which it was situated proved to be significantly deeper than expected. The 5 feet depth of the mud-mat meant that an area, from a depth of 3 feet to two feet above the surface, required a coating to match the yellow top coat on exposed areas of legs and struts painted black because they had been expected to be below the surface.

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*Above: The small platform in its idyllic coastal setting. At the sea level, exposed areas of the legs and struts that should have been submerged can clearly be seen without the yellow polyurethane top coat.*

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Following the cleaning operation, A two-coat index system of Alocit 28.15 was applied. The first was black in order both to define the area being coated and to provide an early warning of damage to the final tinted top coat.

The second coat was tinted to match the customer's specifications and applied the same day, providing a cosmetic and hard wearing solution without any disruption to the normal operation of the facility.

With regular maintenance checks for abrasion or impact damage, the coating has a life-expectancy of ten to fifteen years.

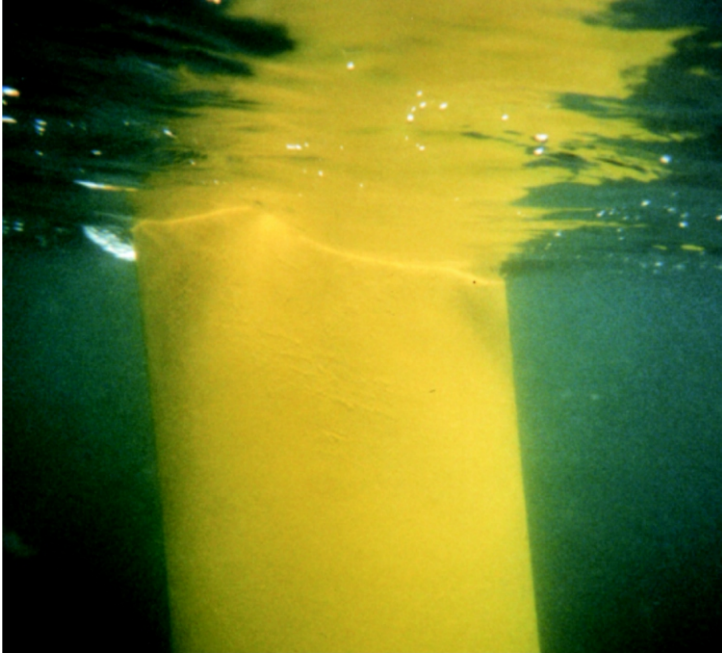


Top left: A diver prepares the surface for coating using grit-blasting equipment.

Top right: The coating is applied by hand brush straight from the tin. First, an index coating of black followed by a top coat tinted to match the original polyurethane.

Bottom left: The finished repair is indistinguishable from the rest of the structure.

Bottom right: Underwater, the leg can be seen to be fully coated and protected.



**TECHNICAL DETAILS**

Type of Project:	Splash zone coating
Substrate condition:	Partly corroded, flaking & damp
Existing coating:	PU top coat, epoxy base coat
Surface preparation:	Grit blasting
Application Method:	Hand brush
Material used:	Alocit 28.15 yellow & black index system
Coverage Rate:	Ave. 7.3ft <sup>2</sup> /kg @ 24 mils
DFT 28.15 Yellow:	12-16 mils
DFT 28.15 Black:	12-16 mils
Total average DFT:	24 mils