SPLASH ZONE - TURKEY

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 not adequately covered by the polyurethane top coat.

The superstructure had been brought overland in sections and coated before installation in approximately 43 metres of water. When the main platform was submerged the mud-mat over which it was situated proved to be significantly deeper than expected. The 1.5 metre depth of the mud-mat meant that an area, from a depth of 0.75 metres to a 0.5 metre splash zone, 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

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.

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:	**Average 0.66 m^2/ kg @ 600 microns**
DFT 28.15 Yellow:	**300-400 microns**
DFT 28.15 Black:	**300-400 microns**
Total average DFT:	**600 microns**

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Visit our website at www.ae-sys.com or contact any A&E Systems office for technical advice and availability in your area.

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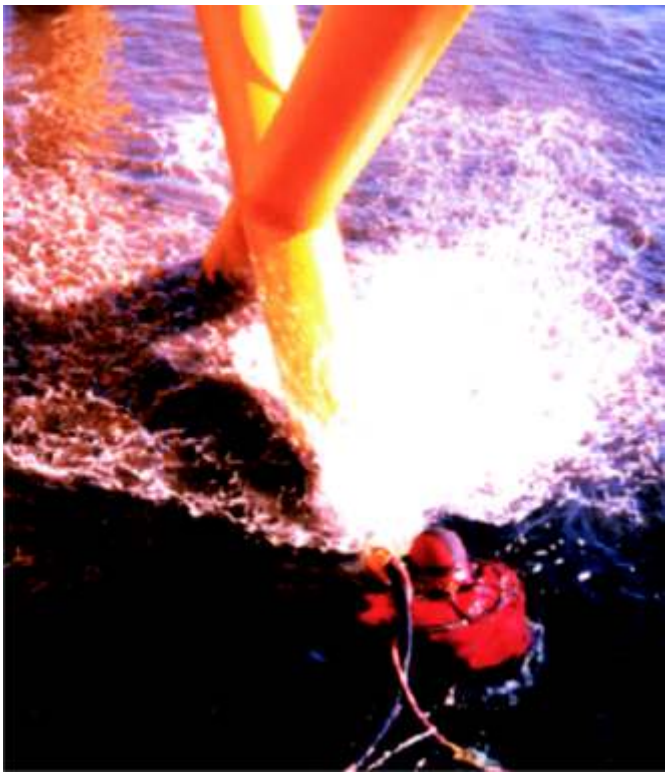
ALOCIT SYSTEMS
HIGH PERFORMANCE PAINTS AND COATINGS

grit-blasting to remove marine growth and provide a surface profile for the Alocit System.

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.

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

Above: 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.

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