

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 platform superstructure had been brought overland in sections and coated on site, ready for installation in approximately 145 feet of water. But, when the main platform was submerged, the mud-mat over which it was situated proved to be significantly deeper than had been expected.

With a thickness of more than 5 feet, the mud-mat raised the level of the platform, causing an area of legs and struts to be exposed that were painted black because they had been expected to be below the surface. It was decided to coat these sections, from a depth of 3 feet below to two feet above the surface, in a coating which would match the yellow top coat of the structure.

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

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 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

Above right: prior to coating, at sea level, black sections of the platform legs and struts can be seen. These areas do not have the yellow polyurethane top coat because it was expected that they would be below the surface.



TECHNICAL DETAILS

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



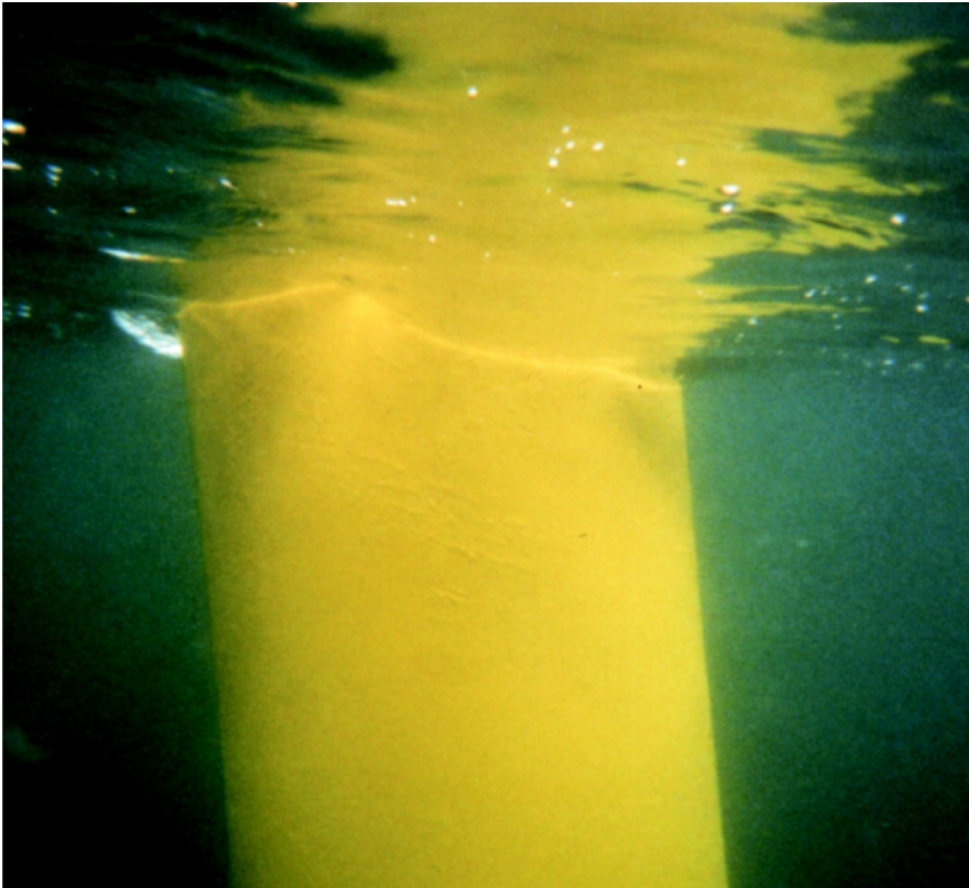
the final colored top coat.

The coatings were applied by hand brush both above and below the surface with the warm waters of the area allowing both coats to be applied on the

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

offshore platform.

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



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

Top middle: the Alocit coatings are applied by hand brush straight from the can following pre-mixing. First, an index coating of black followed by a top coat tinted to match the original polyurethane.

Top right: 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.



alocitsystems

Alocit USA, 3619 South Arlington Avenue,
Indianapolis, IN 46203, United States
Tel: +1 317 631-9100
Email: info@enviropeelusa.com
Group website: www.enviropeelusa.com