

LONG-TERM CORROSION

ENVIROPEEL
THERMOPLASTIC SYSTEMS

Safely extending the useful life of offshore structures is a cost-effective way of maintaining production. This Californian platform was installed in 1968 and a survey showed an ageing infrastructure with areas of long-term corrosion, still in serviceable condition but which would benefit from an extensive corrosion mitigation program.



Photos show that, although the underlying steel appears to be in serviceable condition, no protection is being provided by what is left of the coating. To guarantee that the substrate remains in a safe condition a suitable protection system needs to be applied.



Before application the substrate is cleaned using needle guns and wire brushes.

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Surface preparation for the flanges and assembly was by air-powered needle gun and wire brush, removing all rust flakes to get the surface to a good application standard.

The aim was to fully encapsulate the target areas using two coats of Enviropeel at minimum average DFT of 2mm/80 mils per coat - 4mm/160 mils in total.

High levels of maintenance are required to maintain offshore structures safely beyond their original design lifetimes. The effects of corrosion, however, can be significantly reduced with the use of a suitable coating system. In every case, but particularly where high levels of corrosion exist and standard coating systems are not suitable, Enviropeel offers a long-term cost-effective solution that can be applied without high levels of surface preparation.

Top: Enviropeel personnel applying the system to prepared flange joints

Right and below: the corrosion-inhibiting layer of Enviropeel provides a perfect way of preventing any further damage to the ageing platform infrastructure.

