



## Worldwide repairs carried out with PolymerMetal®

REP-# 169



In a approx. 8 m long pipe section of a fuel pipe situated in sea water (location Middle East) of a huge energy provider there was determined by ultrasonic tests a considerable wall thickness recession due to corrosion and erosion. Prior to the decision of a repair of the 16 inch (outer diameter) big piping there was carried out a pre-test. Here were used MM-metal UW together with fabric tapes made off glass fibre. The above photographs show the corresponding test application of a slightly slimmer pipe. After good test results later the real pipe (16 inch outer diameter, original wall thickness ~ 13 mm, wall thickness recession at thinnest spot to approx. 5 mm; in addition to that deep pittings; water temperature during application approx. 14 – 18 °C; operation pressure in pipe approx. 5,5 up to max. 10 bar) was repaired, too. In the end there were used 100 units MM-metal UW / Hardener UW at this operation. There the pipe was prepared/machined (roughened) in the worn area. Then, under water, there was applied a first (base) coat. Afterwards the fabric tapes were prepared – that means they were coated from both sides with the mixed MM-metal UW – and then wrapped around the pipe onto the still not cured base coating. For a good repair success it was important that the pot life, that means the time span which is available for the processing of the material, was kept.

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