

SealXpert Products

Corrosion Protection Application Note 1 – Underground Pipeline Protection

A new 20,000 metres cruel oil transfer pipeline of diameter 18” (DN450) will be installed from a jetty terminal to a thermal power plant. Some 2,000 metres of the pipeline will be buried underground and the soil condition is subject to heavy salinity due to proximity to the sea.

SealXpert Poly Inner and Outer Wrap is selected to protect the pipeline from contact with underground moisture and seawater. First, the pipeline is cleaned in accordance to the required standards (refer to Product Installation Manual) and Primer 1027 is applied onto the pipe surface. Next, SealXpert Poly Inner Wrap is wrapped around the pipeline with 50% overlap. Finally SealXpert Poly Outer Wrap is wrapped around the pipeline. The completed pipeline is welded and the field joints are wrapped with SealXpert poly Inner and Outer Wrap. Finally holiday test is conducted over the wrapped pipeline before the pipeline is buried.

SealXpert Repair & Reinforcement Solutions



Fig 1: Primer 1027 is applied onto the pipe surface for better adhesion



Fig 2: Wrapping of the first layer of SealXpert Poly Inner Wrap around the pipe

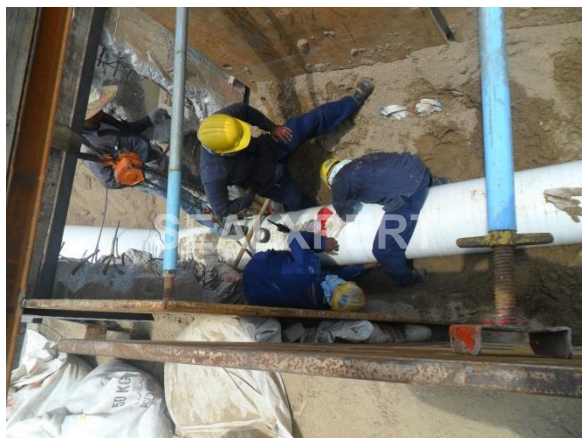


Fig 3: Onsite Wrapping of SealXpert Poly Outer Wrap after welding and NDT is completed



Fig 4: Holiday Test of wrapping before pipeline is buried