

Client: <i>Hyundai Steel</i>	Industry: <i>Industrial</i>
Scope: <i>Pipeline Externals</i>	Date: <i>June 2017</i>
Location: <i>South Korea</i>	Products: <i>RL 500PF & RC 500GTC</i>

Overview

The cooling water pipelines (400m²) of a steel manufacturing plant were suffering from severe corrosion damage and required to be recoated. The conventional coatings previously used failed after only 2 years in service and were refurbished at high maintenance costs. The client was therefore looking for a system which could offer long-term maintenance-free protection.

Challenge

There could be no disruption to the working plant; therefore grit blasting was not permissible. The project also had to be carried out in high humidity.

Solution

Water jetting was utilised as the surface preparation method. Two coats of **wet & rust tolerant Epo-chem™ RL 500PF** was then applied. This was followed by one coat of highly chemical and UV resistant topcoat **Epo-chem™ RC 500GTC**.

Outcome

Significant time and cost savings were achieved by utilising water jetting as the surface preparation method. Due to the satisfaction of the customer, the same system has now been specified for a similar pipeline external project (over 1500m²) for late 2017.

Benefits

- No grit blasting requirements
- Surface tolerant primer
- No humidity or dew point restrictions
- Outstanding chemical and UV resistance
- High gloss finish
- Long-term maintenance-free protection

Continued overleaf

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Photographs:

- No. 1 Before Surface Preparation
- No. 2 During Surface Preparation

* Photographs courtesy of Prochem International

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Photographs:

- No. 3 After Surface Preparation
- No. 4 Applying Primer
- No. 5 Priming Complete
- No. 6 Applying Topcoat
- No. 7 Completed Application

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