

DD Coatings provide reliable corrosion control right down to the last millimetre



The pressure pipeline at Schwanden, Switzerland – a difficult challenge for anti-corrosion specialists

Even at the planning stage, it was likely that some of the coating work on the pipeline would have to be done in autumn and spring, seasons with high precipitation levels and cool temperatures.

Further demands were placed on the coating material because part of the pipeline runs through a permanently damp pipe tunnel and had to be coated in-situ. Here the relative humidity was as high as 98% which meant that the coating had to be applied when the pipeline was damp with condensation.

The pressure pipeline operators, the Swiss electricity generating board, wanted a system which would provide reliable corrosion control for at least five years and a guaran-

tee that the coating could withstand these extreme conditions.

Experienced partners find the solution

Complete corrosion protection for the 6,000 m² of pipeline was assured with a moisture-curing [®]DD coating system. The Swiss engineering company Motor Columbus designed the pressure pipeline and drew up the specification for the coating, a moisture-curing system based on Bayer's [®]Desmodur. The coating was formulated and supplied by experienced coatings manufacturer, STEEL PAINT GmbH of Kitzingen in West Germany.

Close cooperation between these two experienced partners made it possible to tailor a DD coating system which met the demanding specification of this project. This system was based on moisture-curing one-pack polyurethane resins and consisted of:

1 x 75 µm STELPANT-PU-ZINC*
– primer

1 x 80 µm STELPANT-PU-MICA*
– intermediate coat

1 x 80 µm STELPANT-PU-MICA*
– top coat

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