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Experiences with rehabilitation of potable water pipes in Norway

ABSTRACT

Norway has in average water leakage of 35%. For many years, waterworks have requested a product to renew water pipes. Reducing water leakage will avoid the development of new water treatment plants.

In May 2016 has contractor Kjeldaas installed world's first UV light cured GRP liner for potable water, the Saertex-liner H2O, in Norway. This was the first installation in Europe – second installation in the world. Since then Kjeldaas has installed ca. 1800 meter Saertex-liner H2O (DN 250 – DN 600 – DN 900). Longest installation in one section was 265 meter DN 600. The Saertex-liner H2O has structural strength, which is a big advantage to other products in the marked. The disadvantage is that the product requires straight sections.

For sections with bends uses Kjeldaas Primus Line. Primus Line is a flexible sliplining solution for the trenchless rehabilitation of potable water pipes. The system consists of a flexible Kevlar reinforced liner and specially developed end fittings. Primus Line is not bonded to the host pipe and is selfsupporting.

Kjeldaas has the last year installed ca. 1500 meter Primus Line (DN 150 – 200 – 500). Longest installation in one section was 610 meter DN 500 through 4 bends, with difference in height of 50 meter.

Kjeldaas would like to show which challenges we have in Norway when rehabilitating potable water pipes.

- Which material in which situation
- How to convince the waterworks
- Job side preparations before installation
- Equipment used to perform the installation of Saertex H2O liner and Primus Line
- Which adaptations need the product for the future
- To be a pioneer in the marked.