

Systematic Pipe Rehabilitation



Cement Mortar Lining

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strong in the field of
trenchless rehabilitation unde

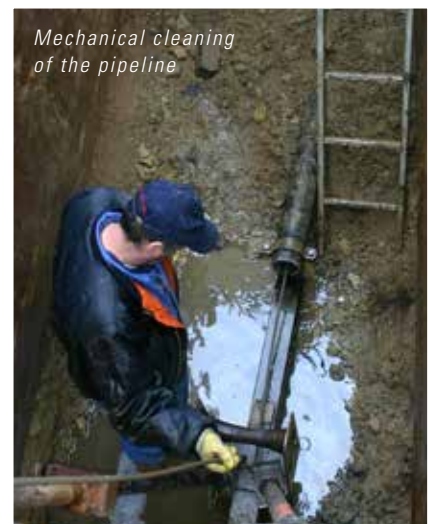


The product

The cement mortar lining of drinking water conduits according to DVGW work-sheet W 343, performed by specialist companies certified pursuant to R4, is an economic procedure of corrosion protection for repairing pipes made of different materials in water distribution networks, the function of which has been impaired by incrustations and corrosion. The centrifuged mortar consists of cement according to DIN 1164, silica sands with a maximum grain size of 1 mm and water having a potable water quality.

The field of application

State-of-the art technology allows the lining of steel, grey cast iron, ductile cast iron pipelines and others with nominal diameters from 80 mm up to 3,000 mm. The procedure is used for restoring the internal protection of the old conduit and is favourable to its hydraulic properties. Corrosion damage is prevented and incrustations are avoided.



*Mechanical cleaning
of the pipeline*

drinking water pressure



Mortar pump for the operation of the centrifugal engine

Small pipe centrifugal engine



Scraper DN 200



Scraper DN 1200



Drinking water pipe before the rehabilitation



Typical site installation for this procedure during car traffic

The installation

After the shutdown and the cleaning of the duct segment to be rehabilitated, the coating material is applied to the pipe wall by means of a fast rotating centrifugal head. Electrically operated, pneumatic-tyred and self-propelled centrifugal engines can be used for the lining of large pipes from DN 600. In small pipes from DN 80 to DN 600 the lining usually takes place with

pneumatically driven motors. The cement mortar is pumped from a mixing tank via a mortar hose into the centrifugal head. Radial metal sheets comb-shaped on the outside allow a uniform distribution of the mortar. A constant draw rate provides a smooth and optimal layer thickness. The setting of the mortar takes between 24 to 26 hours. Subsequently, the pipeline can be filled and taken into operation.

The advantages

By now the rehabilitation with cement mortar has become an economic and technically mature procedure. There is a minimal impairment of the road traffic and the environment. The procedure allows the shutdown of segments for the rehabilitation of the pipeline.



- BlueLine Procedure
- Burst Lining
- Cement Mortar Lining
- Compact Pipe
- CP-ZA 2012-Top-Hat Profile
- DS-CityLiner
- DS - Hose Relining
- DynTec (close-fit-lining)
- Flexoren Relining
- House and Industry Liner
- Installation Procedures/ Large Profile Rehabilitation
- KA-TE Robotics
- Manual Rehabilitation
- Partial In-Liner
- Pipe Relining (long pipe, short pipe and pipe run)
- Polyester Liner
- Superheated Steam Liner
- UV Liner
- and other procedures

www.dus-rohr.de

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