

Manhole Rehabilitation: Comparative testing of 13 different methods



On-site installation conditions simulated in IKT's large-scale test facility

Can **wastewater manholes** be rehabilitated so that they remain **permanently watertight**? What are the benefits and the drawbacks of mortar coating, plastic coating and lining. What quality can be expected? This first **comparative product test** in this field gives you the answers!

"Now for the manholes" – this is a train of thought in the repair/rehabilitation departments of many wastewater network operators. There is, indeed, little point in rehabilitating wastewater pipes without paying attention to the **numerous defective manholes**. This is particularly true in water infiltration zones, since a really watertight sewer network can only be achieved provided the manholes are also rehabilitated.

Under test: thirteen manhole rehabilitation methods

Which of the many manhole rehabilitation methods should we

choose? Which one will seal **reliably and durably**? Which is suitable in which situation, and which are not suitable? Thirteen commercially available methods have now been **analysed** in IKT's "Manhole Rehabilitation" Comparative Test. The **results** range from GOOD to ADEQUATE, with one method failing the test.

Comparative Test: Manhole Rehabilitation

Read the whole article with all test results (PDF, 10 pages)

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IKT LinerReport 2015: Slight disappointment on wall thickness



Precision measurement
necessary: wall thicknesses
can differ

IKT's LinerReport ranks the performance of both CIPP contractors and individual lining systems. CIPP-liner samples from six countries were tested. Results are still at high level. Only wall thicknesses are more frequently below target. Most non-German companies also score well. The report includes Austrian, Czech, Dutch, German, Swiss and UK results.

The report is based on 2,150 CIPP-liner samples taken for quality-control purposes on project sites and tested by the IKT CIPP Liner Test Centre in 2015.

Quality also good outside Germany

For some good time now, more and more results obtained from foreign site samples have been incorporated into the IKT LinerReport. Conspicuous here is the fact that, with a few exceptions, liner types supplied by German producers are mainly used abroad, too, and that the installation quality closely approaches that of the German refurbishing contractors. With only a few exceptions, foreign contractors were well able to hold their own against their German counterparts in the 2015 LinerReport.

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[More info on CIPP liner testing](#)

Video: Webinar on IKT Research Activities 2015

IKT's Scientific Director Bert Bosseler invited network operators as well as contractors and other organisations to a webinar on current IKT activities on **research, testing, education and networking**. He highlighted IKT's **upcoming projects** for 2016/2017, too.

Topics covered:

- Reducing I/I – Infiltration and Inflow to sewers
- Pressure pipe lines in sewer systems
- Optimising sewer cleaning
- Manhole rehabilitation
- Repair of lateral connections
- Flow control units at rain water basins
- Liquid soils for pipe installation
- Sewer lining testing

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Webinar: Update on IKT Research Activities 2015



Webinar at IKT

IKT invites network operators as well as contractors and other organisations to a webinar taking place on Monday 9 November 2015. During this 45 minutes' webinar update, IKT's Scientific Director, Bert Bosseler, will give an **overview** of current IKT activities on **research, testing, education and networking** as well as highlighting our **upcoming projects** for 2016/2017.

Topics to be covered:

- Reducing I/I – Infiltration and Inflow to sewers
- Pressure pipe lines in sewer systems
- Optimising sewer cleaning
- Manhole rehabilitation
- Repair of lateral connections
- Flow control units at rain water basins
- Liquid soils for pipe installation
- Sewer lining testing

The webinar will start at 2pm London / 3pm Berlin.

more information and how to join

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IKT LinerReport 2014: Use of CIPP liners expanding in Europe



Three-point bending test on a CIPP liner

Liner **quality** continues to be **high**. Slight **improvements** over last year. CIPP lining gaining in importance in **Europe**, accompanied by increasing quality awareness. Liner Report 2014 includes Dutch, Austrian and Swiss results.

IKT is pleased to present its LinerReport, for the **eleventh year**. This report is based on nearly **1,800 CIPP-liner** samples taken for Quality Control purposes at installation sites and

tested by the **IKT Test Centre** for CIPP liners during 2014.

A market trend is becoming apparent showing the use of CIPP lining **expanding** in Europe. Although Germany remains the largest market for this method, it is gaining significantly in popularity in other western European countries. This is reflected in this LinerReport with nearly **30%** of the **site samples** tested originating from **outside Germany**, compared with less than 15% last year.

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IKT introduces: New Member TOA, Japan

IKT introduces **TOA GROUT KOGYO Co., Ltd.**, Japan, as a new member of the IKT-Association of Industry and Service.



Sewer pipe rehabilitation with

SEAMLESS LINER. Host pipe:
DN600, Length: 70m; Wall
thickness: 14mm

TOA was established in 1958, at the early stage of high economic growth period of Japan. Sewer pipe rehabilitation with SEAMLESS LINER has become the core business for TOA in the last few years. In 2014 TOA has installed 15.000 m of its SEAMLESS LINER.

Soil and Sewers

In 1958 the first core business field was soil strengthening with chemical grouting method and contributed to the construction of underground structure such as subway transportation network. In the 1980's, TOA entered into the second core business field of slope protection with the ground anchoring method utilizing its experience of soil strengthening technology. It introduced new methods into this field, such as PUC method, ground anchoring combined with prefabricated bearing plates for slope protection, and RING-NETS barrier made with high-tensile steel wire mesh for rock fall protection.

We are very excited to become a member of IKT, and looking forward to working with IKT and the other members.

Yuzo Ooka, President of TOA GROUT KOGYO Co., Ltd.



High tensile steel mesh
barrier for rockfall

protection. Energy absorption:
150hj, Height: 4m, Length: 65m

Moreover, TOA also recognized the potential growth of rehabilitation and maintenance of infrastructure, and entered into the third core business field of underground pipeline rehabilitation. It has introduced many new technologies such as SEAMLESS LINER (UV curing CIPP liner), SNAP LOCK (partial repair method of joints and cracks), SmartBall (water leakage detection with acoustic emission), ICE PIGGING (pipeline cleaning with slush ice) and PRIMUSLINE (high-strength flexible hose) into this business field in Japan.

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IKT-Association of Industry and Service

This association comprises the range of organisations in network operators supply chains including those in construction, product supply, engineering consultancies, specialist service providers, and institutes and organisations, without whose products and services pipelines could not be constructed, renovated or operated.

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