#### lineTEC INNOVATION

#### **UV CURING**

lineTEC UV Liner DN 70 – 250 (2.5"-10")
Developed for significantly faster and safer UV curing

- >>> Bendable up to 90°
- >> Up to 2 dimensional changes
- >> PES UVx10 fiber for significantly better light transmission
- >> DIBt certification in process with WillPox LC 1 K Epoxy

#### **INLET REHABILITATION**

#### lineTEC Universal TY-Liner

9 sleeves for almost all inlet situations

- >> Rehabilitate inlets from 45° to 90° with one sleeve
- >> Extra-long brim for pipe-enclosing rehabilitation up to DN150/DN250
- >> > DN 250 can be used as a top-hat profile
- >> 3.5mm or 4.5mm thickness
- >> Compatible with all common setting tools



#### WE ARE HERE FOR YOU

You have questions about a rehabilitation project, would like to get Information about our products or order goods.

We are happy to assist you under the following contact options:

Tel: +49 7322 144-333 Fax: +49 7322 144-334 Mail: linetec@vfg.de

Further information about our products, data sheets, installation manuals and news can be found on our website www.linetec.info



Vereinigte Filzfabriken AG, a member of the FFF GROUP, has a strong cooperation with sister companies sharing a common passion:

Non-woven textiles and felts!

The group has experience in more than 100 industries all over the world. As a system provider in the nonwoven textile industry, we are the first stop for the development of intelligent and technical textile solutions.

We are also the largest producer of wool felts in the world

More information at WWW.FFF-GROUP.DE



VEREINIGTE FILZFABRIKEN AG
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89568 Hermaringen // Germany

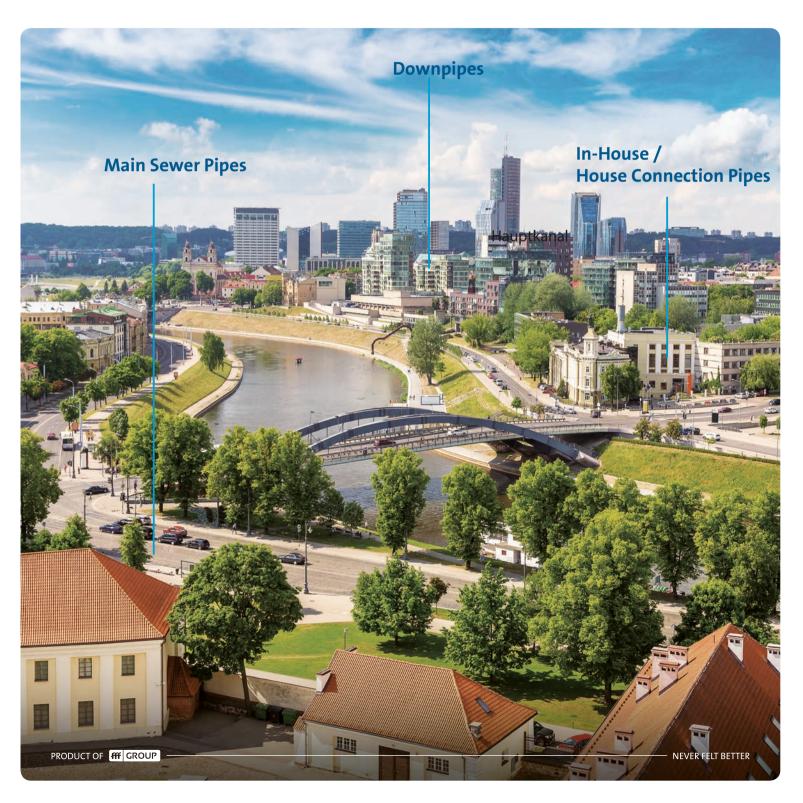
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www.lineTEC.info

PIPE REHABILITATION



# Inetec Relining Competence in lining



MEMBER OF ## GROUP ———— NEVER FELT BETTER

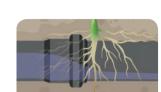
## lineTEC **ECONOMIC PIPE REHABILITATION WITH A SYSTEM**

With lineTEC, the Vereinigte Filzfabriken AG (VFG) offers certified relining systems for the rehabilitation of defective pipes. lineTEC rehabilitation systems are made of specially developed liners for various uses and of precisely formulated resins.

More than 20 years of experience make us a high-performance manufacturer, reliable system supplier and competent partner.



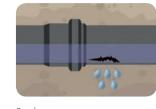
Production and assembling at the Giengen site



WHY REHABILITATE?

sive subsequent costs can be avoided.

such as leaky joints, root penetration or cracks.



Many of the pipes in place have by far exceeded their useful life. Even if

they appear to be functional, a camera inspection often reveals damage

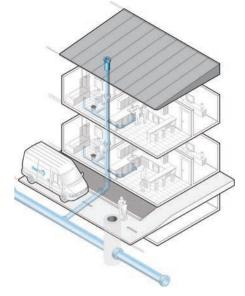
Frequent blockages, wet masonry, cracks or subsidence in the ground

result in damage to the pipes. If caught early, leaky pipes can be quickly

and comparatively economically rehabilitated and long outages or expen-







#### IN HOUSE AND BUILDING CONNECTIONS

#### lineTEC Flex / ProFlex

Extra flexible liner to rehabilitate extreme and small dimensioned pipes from  $50 - 250 \text{ mm} / 2^{\circ} - 10^{\circ}$ 

- >> Bend of up to 90°
- >> Up to 2 dimension changes possible
- >> Good longitudinal stability
- » Curing with water or steam



lineTEC SP – Liner / Hybrid



MAIN LINE AND LARGE DIMENSIONS

Flexible and rigid liners from  $150 - 700 \text{ mm} / 6^{\circ} - 28^{\circ}$ 

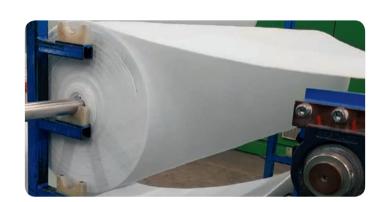
» Needle felt with scrim and PP coating

>> Curing possible with water and steam

» Glass-felt hybrid liner for more stability >> Wall thicknesses from 4.5-20 mm possible



#### RAPID DELIVERY RIGHT FROM THE MANUFACTURER



# As one of the few providers of liners for pipe rehabilitation, we produce the textiles used in our own

facilities. The production of the textiles is done on modern textile machines in our plant in Fulda. We finish the liners in the Giengen plant. Here we produce our standard product range you can find in our product catalogue but also special constructions according to your specifications. The combination of stock standard liners and tailor made solutions make us a

unique system supplier with short delivery times.

#### Production of the textiles at the Fulda site

## TRENCHLESS REHABILITATION WITH THE lineTEC SYSTEM

public sphere, lineTEC offers suitable and efficient rehabilitation solutions for defective pipes.

#### Advantages:

Root penetration

- >> No-Dig rehabilitation
- >> Up to 50% savings compared to excavation
- >> Rapid rehabilitation without noise and dirt



Easy rehabilitation without digging

Whether in residential buildings, industrial plants or in

- Service life of > 50 years

#### lineTEC RESINS

#### The lineTEC EP resins are two-component epoxy resins specially formulated for the rehabilitation of pipes with our liners.

>> Bends of up to 30°

# Service life of > 50 years

#### » Outstanding static values » High adhesion, no shrinkage

- >> Very abrasion resistant and chemical resistant
- >> UV resistant pigmentation

## User friendly mixing ratio

- » Balanced processing and curing times
- Sood impregnation properties
- >> No odour
- >> Environmentally neutral when cured

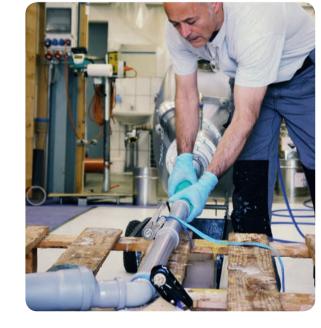




You can find additional information on our products online at www.lineTEC.info or in our product catalogue.

### **OUALITY THAT PAYS OFF**

The quality of the liners and resins used is decisive for the rehabilitation result. For this reason, we place great value on quality assurance. All factors relevant to quality such as thickness, density, stretching performance, coating etc. are inspected before, during and after production. Even the resin and the resin-liner laminate are regularly tested in our test centre and the experimental facilities. The comparatively high effort is reflected in the extremely low returns rate, which is not only appreciated by the installers, but also by the contractors.



## EASY REHABILITATION WITHOUT DIGGING

An inspection opening or shaft chamber is enough for rehabilitation. Through this, a textile sleeve (liner) soaked in resin is inverted into the defective pipe using air or water pressure. The liner fits itself perfectly to the dimension and the run of the old pipe. When the resin is cured, there is a new fully fledged pipe inside the old pipe. The liner and the sealed inputs are opened after rehabilitation with special cutters. Rehabilitation can usually be completed within one day, after which the pipe can immediately return to service.

