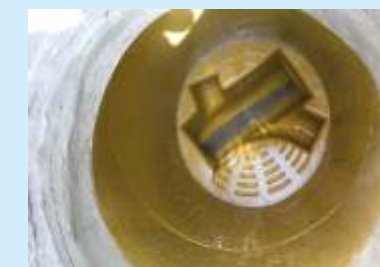


# PREDL- FLEXLINER®



Stand 04/2018



PREDL GmbH has more than 25 years of experience in making sewer water resistant manhole liners. The development of modern rehabilitation processes for sewage manholes is one of our core competences for about 20 years.

Our goal is to create the conditions for a user-friendly, fast and safe rehabilitation with optimal quality with our products.

With the implementation of this requirement, the FLEXLINER® and the digital acquisition package of the manhole data by laser scanning, represent a quantum leap in the manhole rehabilitation :

- Exact survey of the data of the old manhole by 3D laser scanning eliminates the most common source of error of the manual manhole survey. The evaluation of the data recorded by laser scanning enables the digital image of the old manhole to be discussed with the client for useful rehabilitation measures.
- From the digital model, an exact copy of the old manhole is being milled with the polystyrene rehabilitation negative, which serves as a mould for the production of the FLEXLINER®, and as a support core during the rehabilitation work.
- The FLEXLINER® is made of chemical-resistant polyurea and can be folded together non-destructively for insertion through the manhole access and dropped into the manhole base back to its original shape; this eliminates time-consuming and cost-intensive work, such as removing the coverslab (or cone) and the cutting as well as the reassembling of the manhole base liner.
- Transition strips on the FLEXLINER® allow the vertical continuation of the rehabilitation with both, PP-Corportect lining and with GRP materials.
- Various transition possibilities are available for the pipe connections, such as short-liner, concrete joint, Quick-Lock sleeves.
- With the use of the FLEXLINER® rehabilitation method and modern laser-based manhole data acquisition, an optimal preparation of the rehabilitation work and an essential reduction of the rehabilitation effort on site are possible.
- Another advantage lies in the high process reliability through electronic measurement and digital image of the manhole to be rehabilitated.

