



# LIQUID SILICATES STOP WATER MIGRATION

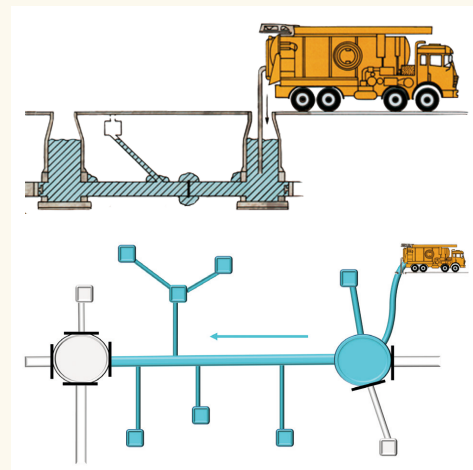
## ALL PARTS INCLUSIVE

Sanipor is a **comprehensive, complete and single process** that seals and stabilizes

- **manholes**
- **main lines**
- **lateral pipes**
- **soil - support**

in one sewer segment, **simultaneously**.

It is very **effective against most of the problems** that can occur in sewer collection systems: Infiltration, exfiltration, sand or root ingress, corrosion, structural deterioration of pipes and manholes due to poor installation and washed out bedding materials.



Flooding the entire segment with Sanipor

## STANDS THE TEST OF TIME

The **original Sanipor Flood-Grouting** was invented in 1987 and has been used internationally since 1992.

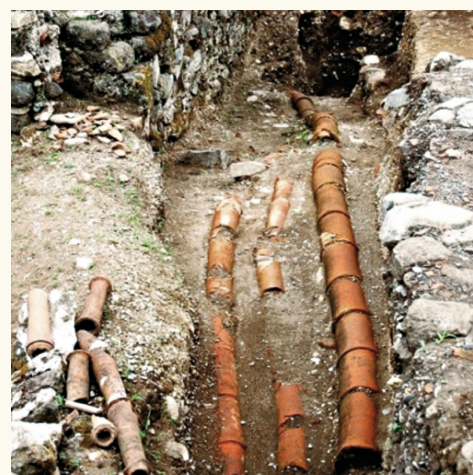
Sanipor now boasts **23 years of excellent references** that include **no reclamations**. Two liquid silicate solutions are injected by hydrostatic pressure through the leaks into the soil. The created watertight soil-grout layer seals the entire sewer segment up to 99%.

The **sandstone - like grout envelope keeps** the pipes stable, and the **water out**. For this reason, it is legitimate to compare the outcome of Sanipor with the **durability of well embedded ancient pipes** (visible at excavations).

It is compatible with other No-Dig technologies and has **manifold applications**. Can be used with a variety of pipe materials and profiles. Sanipor has been effective in the past, and will be in the future.



Sanipor Demo in Texas, 2008



Antique pipes, 1<sup>st</sup> Cent.

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## EFFICIENT METHOD SAVES TIME AND MONEY

Sanipor's **unmatched performance** is based on its speed. Its economy is due to following savings:

- The water tightness that Sanipor can achieve in one day – in all parts of one sewer segment – can be done in conjunction with 3 to 5 different and subsequently carried out trenchless methods. This performance rate **saves on labor costs**.
- The **increased stability** of the sewer segment will **prolong its lifespan** and, prevent expensive replacements caused by premature failures.
- Comprehensive technology makes the elimination of water migration possible – up to 99%. Additional **costs for conveyance and treatment** of excess water **can be saved over** decades, resulting in a **short payback period**.



## ENVIRONMENTALLY FRIENDLY – TESTED AND CERTIFIED

The two **inorganic and liquid silicate grouts** do not harm groundwater and soil.

The German DIBt and British WRc – Water Research Centre, have **examined and approved** the Sanipor technology – according EN 1610 – since 1993.

Two WERF reports have documented Sanipor projects (2005 and 2013) in the USA.

MSDSs and other documentation available on request.



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