

RSS® Flüssigboden for (open) sewer constructions

Sewer construction is a branch of underground engineering that deals with the construction and maintenance of sewage pipes and sewers. Sewer construction differs from earthworks, pipeline construction, and tunnel construction. Sewer construction means the construction of closed, underground drainage pipelines for the disposal of wastewater and rainwater.

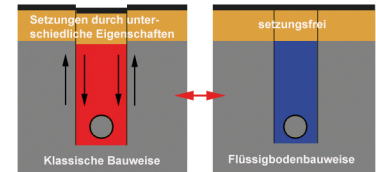
(open) sewer construction

In open sewer construction, an excavator is used to dig a trench, lay pipelines in it and construct the associated shaft structures. The trenches are either sloped or constructed with shoring. The pipelines are usually made of concrete, PVC or fibre composite plastics. In the past, the pipelines were also made of brick or clay, steel, cast iron and edonite pipes. The trenches are filled according to the classical construction method or with the RSS® Flüssigboden construction method. The advantages of the RSS® Flüssigboden construction method include the recyclability of the source material, damage-free (settlement-free) construction and the controllability of the properties of the placed liquid soil. The use of new technologies and the reduction of the minimum trench widths can lead to cost advantages compared to classical construction methods. The durability of the networks as well as a soil-like consistency facilitate maintenance measures.



Properties of the liquid soil variable according to requirements and source material

- The liquid soil must be homogeneous and free of any tendency to segregation.
- Different viscosities settable.
- Strength and elasticity in the form of load-bearing capacity or unconfined compressive strength according to technical planning.
- Friction coefficients, pumpability, water permeability and other properties according to technical planning specifications.
- Re-use of almost every excavated material possible



Reference projects

Construction project: Störmthal, Dorfstraße
 Construction period: 2017
 Production: Flüssigboden GmbH, Eilenburg, Germany
 Planning: LOGIC Logistic Engineering GmbH



Construction project: Hamm, Östingstraße
 Construction period: 2015-2016
 Production: Karl Pollmann GmbH
 Builder: Lippe Verband assoc.
 Planning: LOGIC Logistic Engineering GmbH



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