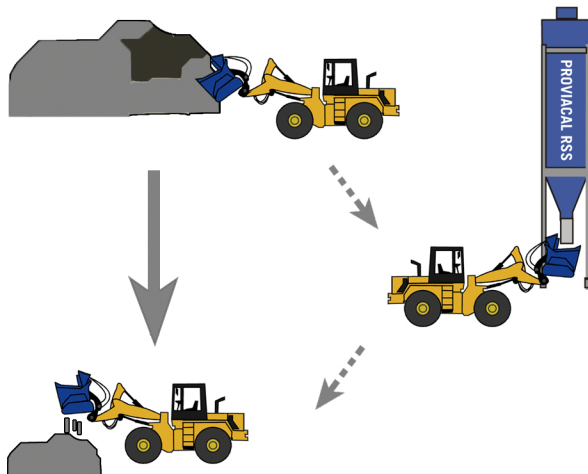


Homogenization and if necessary activation of the source material for the production of RSS Flüssigboden®

General

Mechanically well-prepared source material is the basic requirement for the production of RSS Flüssigboden®. If the source soil is not homogeneous, it is necessary to process as a first step. The tolerance range for slump and inherent moisture content given in the mix design are decisive for mechanical processing requirements. If compliance with these tolerances is not possible, the source material must be further processed, eg by means of shovel separator. ATTENTION: the mechanical processing can be a complex and thus cost-intensive factor in the production of RSS Flüssigboden®. If necessary, talk to your technical planner or a FiFB staff member beforehand..



Processing of source materials

Treatment of the soil with RSS PROVIACAL RD lime

Often, the source material for the production of RSS Flüssigboden® is partly cohesive. If the source material as a whole is not to be considered as granular, or if there are strongly cohesive areas, then the source material should be activated with RSS PROVIACAL RD during processing. RSS PROVIACAL RD removes the water bound in the excavated soil and thus makes the soil flowable. The particular feature of this special lime is the ability to largely minimize subsequent pozzolanic reactions in conjunction with RSS Compound.

Info: The use of RSS PROVIACAL RD may be required not only to improve processability but also for other reasons (for example organic constituents in soil).



From the heterogeneous to the homogeneous source material (bottom right)

Advantages

- Processing of cohesive soils possible
- Ensuring homogeneous, flowable source materials
- Mix design adjustment on site
- Testing institute accredited by RAL
- External monitoring person accredited by RAL
- Successful application of RSS Flüssigboden® made from cohesive source materials on numerous construction sites

Data

- typical tolerance inherent moisture: 2%
- typical tolerance diameter of flow: $\pm 2\text{cm}$
- typical quantities of RSS PROVIACAL RD for cohesive soils: approx. $0.5\text{-}2\text{ mass\%/m}^3$, based on earth-moist source material

If required, the properties can be adjusted within limits, but they are dependent in particular on the set values and must be observed in terms of environmental law.



RSS Flüssigboden® entspricht den Anforderungen des RAL-GZ 507

FiFB Forschungsinstitut
für Flüssigboden GmbH
Wurzner Straße 139
D-04318 Leipzig

Tel +49(0)341-24469-21
Fax +49(0)3423-72424-74
E-Mail j.detjens@fi-fb.de
Internet www.fi-fb.de