

Information on avoiding cracks or tearing off of blocks when backfilling with RSS Flüssigboden®

If cracks appear in the liquid soil after backfilling, this can lead to serious structural damage. Whether the cracks are critical for the respective requirement can usually only be assessed by an expert with many years of experience. In case of doubt, please contact a technical planner for liquid soil or us.

Causes and remedies

The causes of crack formation can be manifold. By far the most common cause is incorrect mix design realization. Please strictly adhere to the specified quantities and the permissible diameter of flow. In particular, "diluting" the liquid soil is not permitted.



Drying crack

Drying crack

In addition to incorrect mix design realization, a frequent cause is a lack of coverage. Particularly at high ambient temperatures in combination with cohesive source material, without covering massive cracking can occur in the liquid soil. If it is not possible to cover or overbuild the liquid soil quickly due to constructional reasons, please contact your responsible technical planner. It may be possible and helpful to sprinkle or change the diameter of flow. Small cracks can sometimes not be prevented without great effort and do not necessarily have to be repaired.

Torn off block

A blockwise tearing off of liquid soil in the trench or from the surrounding soil is definitely a case of damage. Please contact your technical planner or FiFB staff member immediately. In addition to a faulty mix design realization, such a phenomenon could only occur if very high strengths are required. In this case, it is no longer a matter of liquid soil according to RAL or factory standards, but of special mix designs with other strength ranges. Here, special attention must be paid to slow cooling processes in order to minimise the stresses caused by thermal expansion and shrinkage. Covering and temperature control may be necessary. CAUTION: These liquid soils produced according to special mix designs do not show soil-like behaviour and are not normal liquid soils according to RAL-GZ 507 or factory standard.



Torn off block



RSS Flüssigboden®
entspricht den Anforderungen des RAL-GZ 507

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