

Tests in general

Our high-performance testing laboratory, which regularly carries out tests on RSS Flüssigboden, guarantees the use of quality-controlled additives. We only use Compound types with suitable and tested properties. In addition to high quality testing, our focus is on mix design development, consulting and product development. We also offer supervision services in the area of RSS Flüssigboden at the highest level.

Determination of the load bearing capacity in the field

The testing of the load bearing capacity in the field of RSS Flüssigboden® is basically carried out according to the procedure for soil or other building materials. A calibration between EV2 and EVd is essential for RSS Flüssigboden®. In contrast to classical building materials, both the development of the load bearing capacity and the correlation between EV2 and EVd are time-dependent. Usually the ratio of the test values EV2/EVd during the consolidation phase during the first days is smaller than after 28 days. Thus, a correlation at a liquid soil age of 3 days does not apply to a liquid soil age of 28 days. $EV2/EVd = f(t)$. Identical test values for EVd and EV2 are not untypical after 3 d, but a rule cannot be derived from them. Tests are required.

Note:

Usually, RSS Flüssigboden® is applied in road construction as formation level (subgrade) with requirement $EV2 > 45 \text{ MN/m}^2$. For placement above the formation (subgrade), it must be considered that liquid soil is not frost-resistant and that the $EV2/EV1$ ratio is often > 2.5 . This leads to the requirement $EV1 > 0.6 \times EV2$.

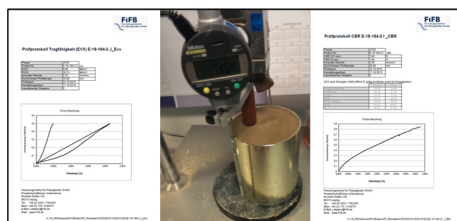


Key data

- typical values: $EV2 > 45 \text{ MN/m}^2$ after 28 days, $EV2/EV1$ not relevant.

Determination of the load bearing capacity in the laboratory

The testing of the load bearing capacity of RSS Flüssigboden in the laboratory is not carried out in accordance with DIN, but according to in-house test specifications and is only suitable for estimating the load bearing capacity. To date, we are not aware of any tests in accordance with DIN. The in-house tests are carried out either with first and second load ($EVx1$ and $EVx2$) in the test cylinder or based on the CBR test, but deviating in the core cutter cylinder and without a cover.



Test protocols and sketched test set-up for the determination of load bearing capacity in the laboratory

Costs load bearing capacity test

In the field:

- Single test of dynamic load plate excluding travel costs: €73.50
- Single test dynamic load plate excluding travel costs for test series of 3-5 pieces: €31.50

In the laboratory (not in accordance with DIN):

- Single test EVx or CBR according to in-house test specification: €24.57 for test specimens already produced (in suitable formwork).

You will find our current price list on our website.

