

Test report

Zemseal[®]

sub-structure waterproofing system

Earthstrap transition through

Zemseal[®] sub-structure waterproofing membrane

17.06.2021

tested by: MAX FRANK testing laboratory, Leiblfling

Test report

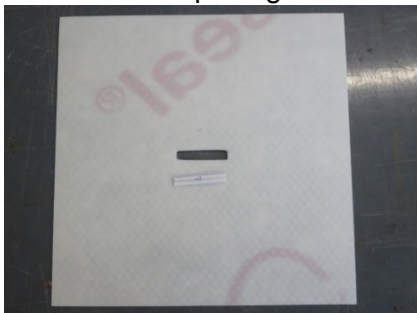
Earth strap transition through Zemseal® sub-structure waterproofing membrane

1. Test object

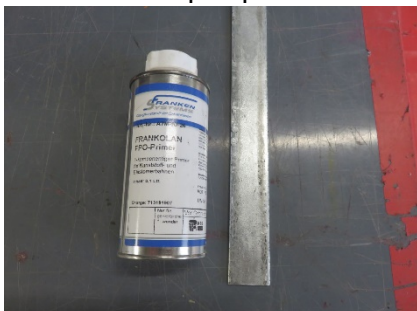
Leakage test of an earthing strap penetration through Zemseal® sub-structure waterproofing membrane using liquid plastic sealant "FRANKOSIL 1K Plus".

2. Test setup

- a) A 4 x 33 mm opening is cut in the centre of a Zemseal® section.



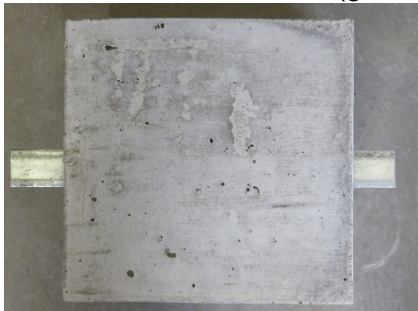
- b) The earth strap is pre-treated in the connection area with "FRANKOLAN FPO-Primer".



Seal the transition of the Zemseal® sub-structure waterproofing membrane with the earth strap approx. 10 cm overlapping applied "FRANKOSIL 1K Plus" in 2 work steps including fabric insertion. Total thickness of the applied layer: 3 – 3,5 mm



- c) After curing of the liquid plastic (24 hours), the formwork of the test specimen is closed and filled with a concrete (grade C30/37).



- d) After 5 days, the specimen shall be stripped and a test bell shall be applied.



3. Examination

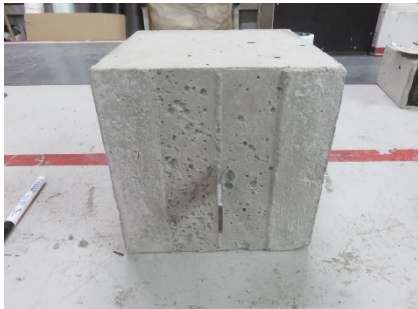
7 days after concreting, a pressure test was carried out with an initial and constant pressure of 5 bar for 72 hours.



4. Summary

The result of the pressure test show no penetration of moisture along the penetrating earthing strap.

A safe waterproofing is guaranteed with the professional use of the liquid plastic "FRANKOSIL 1K Plus" and the corresponding primer.



Leiblfing, 17.06.2021

Dept. of Sealing Technology/Testing Laboratory