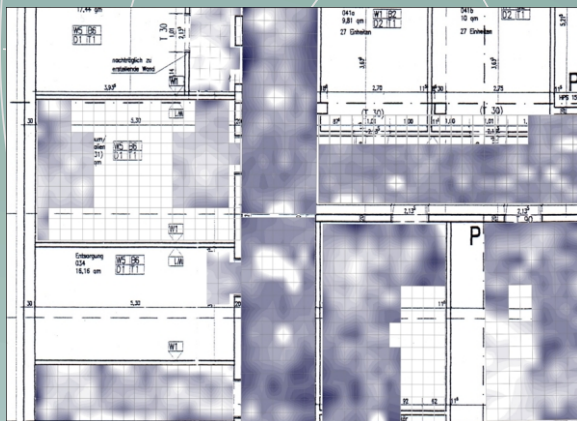


MOIST SCAN - Moisture scans upon large areas

Since the availability of moisture measurement technique using microwaves, recording of moisture distribution has been an outstanding instrument for evaluating the moisture condition of buildings. As a result, it provides demonstrative images of moisture distribution in buildings. In such images the required information either can be found in absolute moisture figures, but in most cases is even more contained in the structure of the moisture distribution. Due to measuring with different microwave sensors realising different penetration depths, statements concerning a quasi-depth distribution of moisture become possible.

Hitherto, recording of moisture distribution upon large areas i.e. in and at concrete buildings seemed to be laborious. In such applications there will be easily some thousand measuring points. The multitude of measurements to be taken considerably raises the measuring time or leads to a lower lateral resolution as actually required, due to economic aspects.



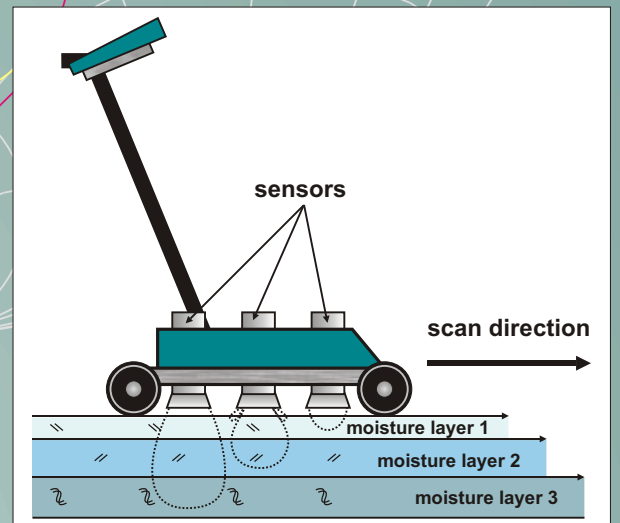
With MOIST SCAN there is a new instrument available, with which scanning of moisture distribution upon large areas can easily be made. By means of moisture scans, measuring fields as large as a pitch can get investigated. A lateral resolution down to 5cm is achievable. By using these features, small details and structures become visible within the scans.

Because MOIST SCAN can operate different microwave sensors at the same time, a single scan provides simultaneous information about several depth layers. Those scans can be visualised on site respectively at the device itself after recording. Hence, important information concerning composition and moisture distribution in the object to be analysed are available immediately.

By using the evaluation software MOIST SCANALYZE more information can be filtered of the raw data. On the one hand, different statistical functions like averaging, median or histogram filters can be applied to the images. On the other hand, special filter might be used for accentuation or elimination of some particular structural elements.

Today's available operational experiences regarding measurements in reinforced concrete lead to the conclusion, that microwave scans using MOIST SCAN are the first class solution for recording moisture distributions inside of large concrete buildings. Practical experiences have shown that based on the scanned images a distinct classification of contained moisture damages or other disturbances of the subsurface can be realised.

MOIST. The cutting edge in material moisture measurement



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