

Non-destructive testing on concrete structures

TECHNIQUES: FERROSCAN

In the case of non-destructive testing (NDT) on concrete structures, INTRON can apply various techniques. These include radar, ferrosan, ultrasonic and infrared. One of the most common techniques (ferrosan) is explained briefly below.

Ferrosan is a non-destructive measuring method based on the generation and detection of magnetic fields in conductive materials. In concrete structures, the strength of this induced field depends on the diameter and the cover of the reinforcement. Following detection of this induced magnetic field, the following characteristics can be determined for concrete structures:

- **Amount and location of reinforcement**
- **Reinforcement diameter**
- **Cover**



Advanced measuring system

The great advantage of measurements with ferrosan, compared to existing detection systems, is that the measurements can be carried out far quicker and more accurately.



Accurate mapping out of reinforcement

Non-destructive testing on concrete structures

TECHNIQUES: FERROSCAN

INTRON can use ferroskan for various purposes: discovering data relating to the reinforcement of a structure, discovering a cause of damage, for quality control, etc.

Ferroskan measurements can be made in concrete to a depth of 0.1 metres.



Verification of reinforcement in old buildings

CONTACTS:

Stefan Benders

Maarten Swinkels

Paul Wiedenhoff

☎ +31 (0)46-4204204

+31 (0)345-585170

+31 (0)46-4204204

Email: sbe@intron.nl

maw@intron.nl

pwi@intron.nl

