Range of activities

Inspection of sealing systems
Geophysical surveys

Range of application:

- Quality control and leak detection of sealing systems in structural and civil engineering
- Permanent monitoring of sealing systems
- Quality survey of concrete construction
- Localisation of pipes and objects in the underground
- Localisation of reinforcement and PC-strands
Investigation of sealing systems in civil engineering:

Inspection & localization of ground water flows through complex sealing systems

Range of application:
- Sheet pile walls diaphragm walls
- High pressure injection & jelly seal basements
- Natural water retaining horizons
- Under water concrete slabs, asphalt surfaces
- Tunnel- and bridge constructions
- Water tight constructions
- Enclosures of building pits or landfills
- Dams
- Mineral sealings and geomembranes

Investigation of sealing systems in structural engineering:

Fast, exact and non-destructive leak detection in different sealing systems in building constructions

Range of application:
- Cellars: concrete & brick walls, bottom slabs, pipe lead throughs, etc.
- Building joints
- Flat roofs, balconies & terraces
- Underground car parks
- Swimming pools, ponds
- Tanks & reservoirs

Non-destructive investigation bridge constructions:

Non-destructive surveys of the sealing system and corrosion of reinforcement on bridges

Range of application:
- Status survey of the sealing of road surfaces, slab joints, cantilever plates, edge beams, etc.
- Control of the current condition of reinforcement and corrosion on the upper and lower part of bridges

Quality control of concrete constructions:

Non-invasive investigation of concrete constructions - also under water:

Range of application:
- Survey of concrete constructions above and below water
- Localization of reinforcement and PC strands
- Localization of cavities and weak areas inside the concrete
- Survey of corrosion of the upper bridge reinforcement from the road surface

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Permanent monitoring of sealing systems:

Continuous leak control of sealing systems with alarm functions

Range of application:
Liner, concrete and other sealing systems for:
- Landfills and deposits
- Mining plants, chemical industry
- Storage basins for water and other liquids
- Filling stations
- Storage halls
- Underground garage ceilings and flat roofs
- Building joints, e.g. for filling stations or airstrips
- Suitable for environmental hazardous substances and liquids, e.g. acids or sludges, etc.
- Extreme durability
- Installable in existing facilities

Localization of groundwater flows:

Non-destructive investigation of artificial and natural sealings:

Range of application:
- Localisation of groundwater flows
- Leak detection of natural and artificial base seals of dams and road constructions
- Survey of dam and sub-constructions
- Localization of the lateral extension of contamination in the underground
- Measurements of horizontal and vertical groundwater flows in wells

Non-destructive survey of the subsurface:

Optimized results by using a variety of geophysical methods:

Range of application:
- Investigation of the geological subsurface
- Localization of cavities, cracks and soil settlements in the subsurface
- Detection of pipes in the subsurface and under water
- Archaeological pre-investigations
- Determination of the technical state of railway embankments, dams and channels
- Investigation of mud thickness in rivers, lakes and reservoirs
- Localization of metal objects in the underground

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Our measuring systems:

From the start of our business we have specialized on the inspection of sealing systems in civil and structural engineering. Here we use electronic measuring devices which we developed, patented and assembled in-house. Our technologies and processes are certified according to DIN EN ISO 9001:2015 and CUR 44.

FGM® (Flexible Groundwater Monitoring) and ECR® Technology (Electrochemical Response)
Method to measure electric and electrochemical potentials in the underground, thus determining the streaming potential of water flows and detecting leaks in the sealing system.

EFT® Technology (Electrical Flux Tracking)
Method to detect leakages in sealing systems in structural engineering.

MSS® Technology (Multi Sensor System)
Monitoring for stationary or temporary control of sealing systems.

Geophysical methods
Ground penetration radar, underwater radar, gravimetry, electromagnetics, seismics, geoelectrics,

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