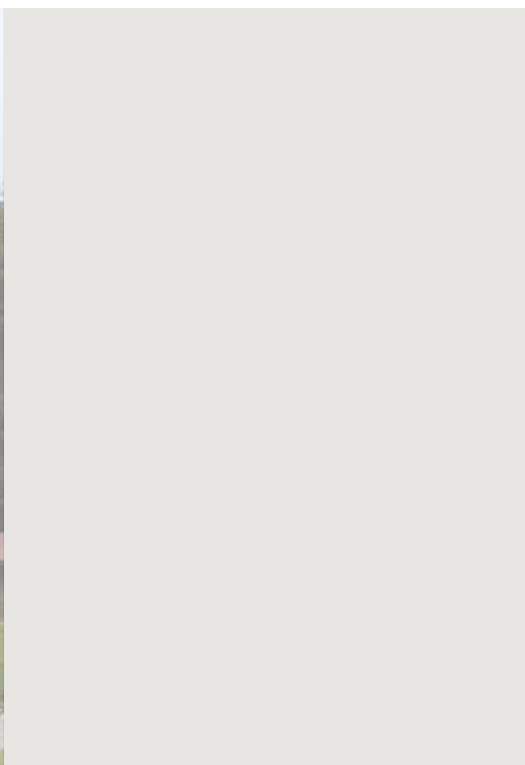




## FINDING COMMON SOLUTIONS

Building Material Laboratory  Ground Material Laboratory  Renovation/Restoration

 Sports and Recreation Structures







- 40 years of success with a passion for concrete
- Customized concepts
- Engineering knowledge and technical mastery
- Thorough customer support
- The highest quality requirements

## BUILDING MATERIAL LABORATORY

### BUILDING MATERIAL TECHNOLOGY

- Building material inspection
- Ground material inspection
- Product development
- Quality assurance

### STRUCTURE DIAGNOSTICS

- Surveys
- Preservation of evidence
- Remedial designs

## RENOVATION/ RESTORATION

- Concrete restoration
- Sprayed concrete treatments
- Crack and hole filling
- BARG VAKUfil
- Reinforcement and strengthening
- Cathodic corrosion protection

## SPORTS AND LEISURE STRUCTURES

- Water parks and leisure pools
- Zoological gardens
- Residential environments and parks
- Sculptures and fountains
- Rock climbing walls and skateparks



## BUILDING MATERIAL TECHNOLOGY AND MONITORING

Our experienced technologists offer product-neutral, independent and individual services for product development. Technically and economically optimized building material systems guarantee you effective and quality-assured solutions, e.g. during manufacture and processing of sprayed concrete, mass concrete and fair faced concrete.

## CONCRETE PRODUCTION IN THE READY-MIXED OR PREFABRICATED CONCRETE FACTORY

With our team of experienced engineers and professionally adept laboratory technicians, we meet the highest requirements for the commercial and technically demanding implementation of concrete manufacture. With us, you and your products are always in the forefront – effective, flexible and always at the most up-to-date level of standardization.

Inspection of the Water Ingression Depth

Testing laboratory accredited according to DIN EN IEC ISO 1 7025:05 by the DAP German Accreditation System for Testing GmbH. The accreditation is valid for the testing procedures listed in the document.



DAP - PL - 08 13.00

- ▶ DAP accredited test stations for examinations of freshly mixed and hardened concrete, testing of the cement strength
- ▶ Test stations accredited according to RAP-Stra 04 areas: A1, A3, D3, I3

## CONCRETE PROCESSING AT THE BUILDING SITE

We guide and see you through all questions about the concrete processing, efficiently, professionally and competently. All orders are centrally accepted according to scheduling and handled shortly.



ONE MATERIAL AND A THOUSAND  
POSSIBILITIES

## MORTAR

All mortar products are developed and monitored by us according to DIN EN 998. These services are performed for the manufacturer of fresh and wet mortar in close connection with them according to the needs of the product processor.

## AGGREGATE

Aggregate is inspected by us within the plant's own production standards according to DIN EN 12620 and TL Gestein (technical delivery conditions for rocks) both during the manufacture in the gravel plant and during the further processing as concrete, mortar or pavement in ready-mixed or prefabricated parts factory.

## MISCELLANEOUS BUILDING MATERIAL

We develop and test building materials for special cases of application according to the state and standards of the technology, also with support for possible authorization procedures „agreement on an individual basis“.

## PAVEMENT

Pavement products are developed, tested and monitored by us according to DIN EN 13813. These often underestimated products unfortunately carry a high risk. With our knowledge and support that is both product- and customer-oriented, a quality-assured production and processing of pavement products is successfully accomplished.



## GROUND MATERIALS

Our test center is a laboratory accredited according to RAP-Stra 04 (A1, A3, D3 and I3) in the states of Brandenburg, Berlin, Saxony-Anhalt and Mecklenburg-Western Pomerania. For your foundation soil and mineral examination needs, we can offer you the following service types with our competent personnel:

- Foundation soil examinations
- Inspections for road construction and underground work
- Mineral compound testing
- Suitability tests for bound base layers

In addition, we offer complete monitoring and quality assurance of large building projects, such as during the fixture of hydraulically bound base layers.

## BINDING MATERIALS

Inspections for binders of the building material industry are implemented in our laboratory in accordance with standards. In addition, we also carry out specific tests according to their special requirements.



# STRUCTURE DIAGNOSTICS

## ► Specialists for concrete technology and damages in constructive civil engineering

- As-is analysis before, during and after building measures
- As-is analysis for the preparation of survey reports
- As-is analysis in cases of damage
- Quality control during a building measure
- Testing of building material in cases of fire damages
- Chemical analysis of contaminations depending on use
- Inspection of crack formations or moisture damages
- Cause study in cases of moisture damage

### ADVISORY ACTIVITIES

- Determination of causes of damage
- Survey reports
- Substance examination of building parts and constructions
- Preparation of remedial designs

### PRESERVATION OF EVIDENCE

For the purpose of preserving evidence, the actual condition of existing office space, rooms and buildings is documented before, during and after building measures to neighboring objects are carried out.

The survey of the condition is recommended if a damage to the as-built structure by building measures in the immediate vicinity cannot be excluded.

### Our service for you:

- Expert survey opinions
- Preservation of evidence
- Remedial Designs



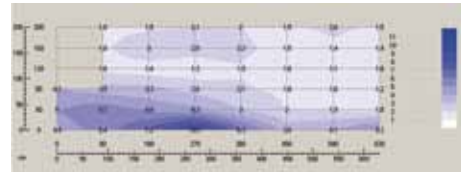
## STRUCTURE DIAGNOSTICS

Comprehensive services for the examination of structures, structural elements and building materials by qualified laboratory personnel, as well as professional customer liaison and support in building material technology and technical engineering. As a testing laboratory accredited according to DIN EN 45.001, we have obligated ourselves to quality. For our tests, we have modern, electronic testing machines at our disposal and use efficient, non-destructive test procedures. Regular advanced training, constant exchange of experiences and the collaboration with national and international bodies stand for the professional competence of our personnel.

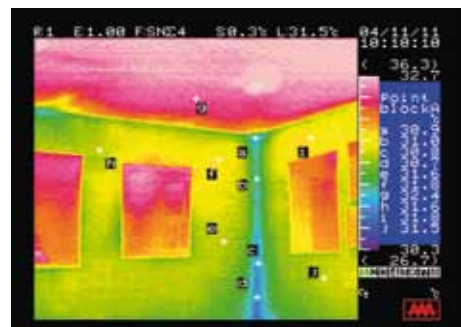
With the cooperation with our competent, long-standing partners in the areas of statics, planning and restoration, the solution to a special job is always possible for us. Our clientele from the public and private areas, engineering and architecture offices and specialists are proof of our competence and reliability.

### Our service for you:

- ▶ PC-supported measuring technology
- ▶ Concrete reinforcement positioning
- ▶ Concrete pressure resistance testing
- ▶ Infrared thermography
- ▶ Blower door testing
- ▶ Endoscopic testing
- ▶ Hydrophobizing measurements
- ▶ Temperature and room climate measurements
- ▶ Ultrasonic testing
- ▶ Planar humidity measurements
- ▶ Potential field measurements
- ▶ Measurement of the discharge resistance



Planar humidity measurements



Infrared thermography



Testing on wind speed, thermoanemometer

# RENOVATION / RESTORATION

## WHY IS RENOVATION IMPORTANT?

With renovation of concrete components, it is not only about the replacement of destroyed or worn out concrete. Our measures also guarantee optimal corrosion protection of the concrete reinforcement and lasting surface protection of the renovated components. Those who work with buildings and structures know that many good reasons speak for a restoration. If it is carried out in a timely and specific manner, renovation measures can preserve the building substances. The service life can also be extended, errors in planning and bad workmanship can be corrected, structural integrity can be established and financial damages can be avoided.

Renovation Technologies:

### SPRAYED CONCRETE PROCESS

With this technology, the most diverse building problems can be solved. In particular: sprayed concrete is carried to the installation point in a closed hose or pipe line and compressed by its impact energy. The alkaline environment of the sprayed concrete protects the reinforcement from corrosion.

## CONCRETE RENOVATION

With renovation of concrete components, it is not only about the replacement of destroyed or worn out concrete. Our measures also guarantee optimal corrosion protection of the concrete reinforcement and lasting surface protection of the renovated components.

### Our service for you:

- ▶ Facade renovation
- ▶ Car parks and underground parking garages
- ▶ Bridges and tunnels
- ▶ Building pits and slopes
- ▶ Fire and water damage renovation



Sprayed Concrete Process

## CRACK AND HOLE FILLING

Cracks and holes in brickwork and concrete cannot be underestimated. Moisture and corrosive substances can infiltrate the structural components and greatly compromise them. A professional renovation ensures structural integrity as well as durability. The open joints are tied positively or elastically – depending on static requirements and intended use.

## BARG VAKUFIL

We not only work with professional technologies, but also develop new procedures. Included is the special process BARG VAKUfil for filling holes and cracks. A typical application area is for very finely branched cracks and holes or for contour scaling near to the surface. In these cases, the traditional processes reach their limit.

## STRENGTHENING AND SECURING

There are always changes to the statics, to the load bearing capacity, be it due to a measurement or execution error, for planned replacement or after a fire. We offer effective measures to strengthen and secure structural elements.

## CATHODIC CORROSION PROTECTION

Corrosion due to high chloride exposure is accompanied with great hazards. It is present long before it becomes visible and can suddenly lead to the collapse of structural elements, for example, in underground parking garages, bridges and offshore structures. In comparison to classic restoration of structural elements that have been exposed to chloride, the advantage of a renovation with cathodic corrosion protection is that the chloride can remain in the component through the integration of a sophisticated sacrificial electrode system, so a replacement of the concrete is not necessary.

Before After

Renovation of a parking garage





## HOW IS AN INTERESTING ROCK CLIMBING WALL MADE OF SPRAYED CONCRETE?

The building activity of many years has provided us with fundamental knowledge and brought us to an idea: if we join our technical know-how and the state-of-the-art concrete building material with artistic design, then very attractive structures for recreation and leisure can arise.

We implemented this idea because the expectations for sports and leisure structures are enormous and always increasing. Authenticity and adventure are more sought after than ever – especially by young people. With our spectrum of service, we can react to that demand specifically.

Since January 2009, we have centralized our sports and leisure division into the newly founded company X-Move.



The experts in the team have over 10 years experience in the development, planning and production of playgrounds, sports facilities and recreation centers out of concrete and other materials.

From the first vision to the approval to start using. Professional and favorably priced.

[X-MOVE.NET](http://X-MOVE.NET)

## LEISURE POOLS

Open air and indoor swimming pools, saunas and hamams, wellness baths, artistic grottos

## ROCK CLIMBING WALLS AND SKATEPARKS

Skateparks and skatepools, rock climbing walls, artistic stones and rocky landscapes, boulder walls

## RESIDENTIAL ENVIRONMENTS AND PARKS

Playgrounds, sculptures; fountains, floor designs

## ZOOLOGICAL GARDENS

Enclosure partitions, water basins, laying rock areas, terrariums leisure pools



# WHERE TO FIND US

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 **BARG**



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