

# BE SURE. BUILD SURE.

Enabling better construction and repair







Each individual product can have a critical effect on an entire structure or its repair. Choosing the wrong solutions or applying them incorrectly can lead to component and structural damage and, in extreme cases, even endanger life.

Planners, engineers and applicators therefore have a significant responsibility to bear, of which we are only too aware.

It is not only your own good name that is at stake; businesses and people also have to be protected. Hence – through reliable and sound technical advice and product solutions – we dedicate our fullest efforts, care and attention to ensuring that each project performed by our customers is executed to their enduring satisfaction and peace of mind. Because part of being MC really does mean accepting responsibility for lives and reputations.

We take building seriously.

**BE SURE. BUILD SURE.**



*Your link to the video ...*

*Scan the code or enter*

*<https://youtu.be/sM1eyhVzBjs> in your browser.*

## Competent, innovative and customer-focused the world over

For more than 60 years now we have been leveraging the know-how, innovative prowess and sheer competence of our people in order specifically to provide customers with the assurance and peace of mind they seek. We regard client satisfaction as the primary benchmark of our success – from Europe to South America, in Africa and the Middle East and from South-East Asia to Oceania.

Also throughout this sixty-year-plus period, MC-Bauchemie has been committed to developing advanced solutions for the treatment of concrete and the protection and repair of buildings and structures. Established in 1961 with 25 employees, the group of companies today counts among the world’s leading international manufacturers of building chemical products and technologies, currently boasting a workforce of over 2,800 people located in more than 40 countries.

Our customers have very individual requirements, whether it be in the manufacture of concrete or in the construction and repair of civil engineering, industrial, low-rise or high-rise structures. Consequently, we have divided our product portfolio into three sector-related segments, each of which is dedicated to providing our customers with tailored solutions. Our expert advisors offer many years of experience in the respective markets. They support our partners with their specialist knowledge, taking care to address particular client challenges. Hence, we have likewise pooled our know-how – acquired in numerous areas of application over more than six decades – in what we call our Fields of Expertise. Our aim here is to ensure we adopt a holistic approach encompassing everything from individual components and products right through to the building structure or system so as to provide truly viable recommendations.



**MC FOR CONCRETE INDUSTRY**


Solutions geared to optimising concrete characteristics in the ready-mix, prefabrication and concrete products segments.

 **FIELDS OF EXPERTISE**

- Concrete Goods
- Precast
- Readymix

**MC FOR INFRASTRUCTURE & INDUSTRY**

Solutions for industry, transport-related construction and supply and disposal infrastructure.

 **FIELDS OF EXPERTISE**

■ Aircraft	■ Metal
■ Airport	■ Pharmaceutical
■ Automotive	■ Potable Water
■ Bridge	■ Powerplant & Chimney
■ Carpark	■ Sewage Water
■ Chemical	■ Tunnelling
■ Cleanroom	■ Underground Sewer
■ Dams	■ Water Gates
■ Electrical	■ Wind Power
■ Food	

**MC FOR BUILDINGS**

Solutions for structural engineering, residential construction and the repair of historic buildings.

 **FIELDS OF EXPERTISE**

- Historical Buildings
- Masonry
- Residential & Public Buildings
- Stadium





**Customer-focused the world over ...**

... including in New Zealand: Auckland's Waterview Connection motorway development counts among the country's biggest ever infrastructure projects. It includes construction of two adjacent tunnel tubes, each with a width of around 13 metres. During the building work, water started to penetrate from the surrounding soil, which meant that the joints between the precast concrete tubbings had to be resealed. Impressed by preceding test results, the client and planning engineers decided on an injection system from MC. A certified applicator was chosen to carry out the work with comprehensive MC support.





*Tubbings storage yard with components ready for construction of the Bossler Tunnel, part of the new railway line being built between Wendlingen and Ulm in Germany. At 8.8 km, the railway tunnel will be one of the longest in the country. The tubbings are manufactured with a superplasticiser provided by MC which, with economic dosage levels, ensures high early strength values and a high-quality concrete finish.*

## Making concrete better in every respect

Whether architects, building contractors, planners, manufacturers of ready-mix concrete and precast concrete components, or makers of concrete goods, they all benefit from the high quality of our concrete and mortar admixtures, our curing and release agents, and our concrete cosmetic products.

We support our partners in every respect – with technical and technological advice on matters of concrete, in preliminary trials performed in construction material laboratories, with help in suitability tests, with assistance in ensuring accurate metering, and through the environmentally sound supply of our concrete admixtures by road tanker or swap body vehicle. With our modern system solutions tailored to each specific set of requirements, we ensure ongoing improvements in the quality and manufacture of concrete and concrete products, and simplification in their application, treatment and curing – not only in making conventional concrete, but also in 3D concrete printing and building with cement-free concrete.

### Comprehensive range of products for the production of concrete

Early strength, final strength, compactness, resistance, surface quality and ease of placement – with our admixtures, your concrete can be adjusted to precisely the performance features you require. Our curing agents protect the fresh concrete from drying out, while our release agents ensure that the concrete can be optimally separated from the formwork, leaving high-quality fair face surfaces. And in the event that damage should occur either during transit or on site, we offer a comprehensive range of concrete cosmetic products with which to effectively re-work and repair the areas concerned, leaving an immaculate, perfectly matched surface finish.

To help them to make concrete better in every respect, we provide manufacturers of ready-mix concrete, precast concrete components and concrete goods with high-quality products of impeccable reliability; and we open up new possibilities to architects and planners for cost-efficient construction to the highest standards. Wherever you are on the concrete industry spectrum, you can rely on the competence and expertise of our specialist advisers to respond to your needs and help make sure that your project is a success in every respect.

#### MC FOR CONCRETE INDUSTRY

- Admixtures
- Concrete Cosmetics
- Curing Agents
- Grouts
- Hydrophobic Agents & Impregnation
- Release Agents



#### FIELDS OF EXPERTISE

- Concrete Goods
- Precast
- Readymix



## Providing durable repair and protection systems for concrete structures


The construction and repair of bridges, tunnels, multi-storey car parks, airports, port facilities and sewage systems are usually highly complex undertakings. Such projects have enormous importance for the development of a country and are thus frequently carried out under the glare of publicity.

Even small defects or errors can give rise to costly consequences, adversely affect reputations and, in extreme cases, even endanger life. So it is all the more important to permanently ensure the stability, resistance and durability of such structures. Whether your work entails concrete repairs, surface protection, waterproofing injection or joint sealing applications, we offer you – the planners, architects, developers and public authorities responsible – innovative product systems backed up by a unique level of service and support.

### Tailored solutions for industry

The same applies to our industrial customers. To these we offer solutions that are as diverse and individual as the specific requirements of each job in question. From chemically and mechanically highly resistant, WHG (Water Resources Act) compliant industrial floors for the chemical industry to conductive floor systems for the electronics sector and high-density surface coatings and protection and repair systems for separators and sewage treatment plant. However, a good product is in itself not enough in order to ensure the success of an undertaking. Professional application is just as important. So we regularly train applicators in the correct usage of our product systems. Beyond that, our experienced employees also support planners, architects and developers both during the planning phase and on site, standing shoulder to shoulder with them as they implement their construction and repair projects.

So make the most of our many years of experience and comprehensive competences. Our technical advisers will ensure that the greatest care is given to your individual concerns so that your project is a success and you can sit back and enjoy the rewards.

<p><b>MC FOR INFRASTRUCTURE &amp; INDUSTRY</b></p>	<p style="text-align: center;"> <b>FIELDS OF EXPERTISE</b></p>
<ul style="list-style-type: none"> <li>■ Concrete Repair</li> <li>■ Curing Agents</li> <li>■ Floor Coatings</li> <li>■ Grouts</li> <li>■ Injection Systems</li> <li>■ Joints &amp; Sealants</li> <li>■ Montan – Tunnel Systems</li> <li>■ Membran – Underground Sewer Systems</li> <li>■ Release Agents</li> <li>■ Structural Strengthening</li> <li>■ Surface Protection</li> <li>■ Waterproofing</li> </ul>	<ul style="list-style-type: none"> <li>■ Aircraft</li> <li>■ Airport</li> <li>■ Automotive</li> <li>■ Bridge</li> <li>■ Carpark</li> <li>■ Chemical</li> <li>■ Cleanroom</li> <li>■ Dams</li> <li>■ Electrical</li> <li>■ Food</li> <li>■ Metal</li> <li>■ Pharmaceutical</li> <li>■ Potable Water</li> <li>■ Powerplants &amp; Chimneys</li> <li>■ Sewage Water</li> <li>■ Tunnelling</li> <li>■ Underground Sewer</li> <li>■ Water Gates</li> <li>■ Wind Power</li> </ul>







*As part of the A61 motorway, the Ahrtalbrücke (Bridge over the Ahr valley, Germany) carries an average of 65,000 vehicles a day. This traffic load combined with weather and other environmental influences had led to significant damage of the concrete surfaces, with the bridge ultimately needing extensive repairs. Various systems from MC were used by the contractor, including the final protection coating.*



*The group headquarters of the airline company Aer Lingus in Dublin, Ireland, was repaired with a pre-trialled multi-product system from MC and then provided with a high-performance protective coating, also from MC. Now benefiting from long-term resistance to carbonation and dirt, the building can be expected to retain its visual allure for many years to come.*





## Applying the best solutions in building construction

The requirements that have to be met in the construction and usage of building structures are many and varied. Particularly during the project engineering phase, timing, smooth management, cost-efficiency and the quality of the various feeder activities are of crucial importance. Our advisers support developers, architects and planners even in the planning and tender specification phases, helping them to find the best solution for their undertaking.

Our people will also be a regular or even constant presence on the site in order to be able to respond quickly and flexibly to client requirements and challenges. They will likewise support the applicators in the performance of their work, thus ensuring the success of each and every measure involving MC technology.

### Specialised product systems

We offer partners active in building construction specialised product systems for the sealing, protection and repair of commercial and residential buildings. Our solutions include high-efficacy bituminous and bitumen-free waterproofing systems and super-resistant, high-performance coatings for floors, walls and ceilings, not to mention our screed systems, plasters, renders and mortars.

And for the repair of historical buildings and structures, we also offer a complete range of speciality product systems with which valuable, heritage building fabric can be given a new lease of life. Rely on our high-quality solutions and the competence of our technical advisers and make sure you get the safety and reliability you need for your projects.

#### MC FOR BUILDINGS

- Concrete Cosmetics
- Concrete Repair
- Curing Agents
- Floor Coatings
- Grouts
- Injection Systems
- Joints & Sealants
- Masonry Systems
- Release Agents
- Screeds
- Surface Protection
- Waterproofing



#### FIELDS OF EXPERTISE

- Historical Buildings
- Masonry
- Residential & Public Buildings
- Stadium

## Tailored product systems for resale

Aside from direct sales leveraging our own technical expertise, MC also supplies products to the trade, enabling resellers to also benefit from the quality that derives from our extensive research and development. We market our trade products under various brands, with the associated communications and portfolio structures adapted to each individual target audience. This is necessary in order to meet the changing requirements of specific channel structures and accommodate regional variations.

From sealing systems for bathrooms, kitchens and pools to tile adhesives and grouting mortars, and from professional floor laying systems to visually attractive wall designs and waterproofing systems, customers are able to find products aligned to their particular requirements backed up by MC's building chemicals know-how from over 60 years of production and application experience.

### High-quality products and a top-class service

We are proud to be regarded as a trusted and reliable partner for our trade customers, one that is dedicated to protecting their reputation and their position in the market through the supply of high-quality products and sustainable innovations.

Our work really begins once a product has been listed. We provide maximum assistance to resellers with extensive marketing and training services to ensure that their customers are also well looked after. Whether on site or in the office, we support our trade partners, applicators and end customers in everything from familiarisation with our product systems through to their final application.



Botament is synonymous with building system products of professional quality, marketed through builders' merchants and covering everything from building waterproofing and repairs to tile laying, and from flooring systems through to garden creation and landscaping.

[www.botament.com](http://www.botament.com)



Ultrament offers consumers high-quality products for dry lining and dry wall construction, waterproofing, timber protection, mould prevention and removal, and wall decoration – all sold through DIY stores.

[www.ultrament.com](http://www.ultrament.com)





## Die professionellen Fliesenkleber der HP-Serie

- Weltklasse in der Verarbeitung
- Erstklassig im Verbrauch
- Sicherheit auf der ganzen Linie






**Botament** **BÜNDER**  
MIT VERZÄHLEN Das heißt, was die Profis lieben

Whether for residential construction, renovation work, new floors or a new bath set, our sister companies are trusted by the trade, offering store customers building material systems for professionals. Applicators appreciate the high quality of the products provided: They can be readily applied, producing reliable results that last well after the job is finished.







## Pro-active partner support

Both new build and repair projects are complex undertakings that invariably bring with them a wide range of challenges. From beginning to end, we ensure that our customers get the best possible support and advice – personally tailored expertise leading to practical and practicable solutions.

Whether in the client's office or on site, we are always where our partners need us. Maintaining a constant dialogue with planners and specialist firms, we develop individual, practical solutions designed to do the job and do it right. Backed up by decades of experience and ongoing research and development, we know how to get to the root of a problem and produce detailed solutions to achieve the desired outcome.

We don't leave our customers alone with our products. Rather, we thoroughly familiarise them in the application of the associated technologies through individual training courses, enabling them to achieve good results time and time again.

### **In-depth know-how transfer**

We also offer a range of soundly structured information, education and training programmes – from application courses and seminars to the MC-FORUM and related symposia.

We run various national and international events in which we promote information exchange with building industry professionals and provide information on general developments in the construction sector. Here, too, the emphasis is on achieving an effective know-how transfer to the benefit of all, while providing our customers with cutting-edge expertise and useful updates for their day-to-day operations.

*Planning of an industrial floor solution in the food industry:  
Every repair has to be individually aligned to specific causes and prevailing conditions. So we always inspect the site, enabling us to recommend the best solution to the problem and to properly support customers at the implementation stage.*

## Developing the standards of tomorrow

The primary purpose of innovation is to keep one step ahead of the crowd and extend development beyond the established state of the art – that is the spur that gives us our drive. The research and development work that goes into the establishment of new products and systems – and thus the creation of true added value for our customers – is very much integral to our corporate culture.

One in ten of our workforce are employed in the Research & Development division. Chemists, mineralogists and materials technologists from our laboratories maintain very close ties with our technical product management and our specialist field advisers around the world.

Through constant contact with our customers and contracting companies operating on site, we receive feedback relating to problem areas which we can then utilise for new developments. We are also regular contributors to national and international research projects and cooperate with universities and external material testing institutes.

### **Helping innovation to thrive**

From this fertile soil grow innovative ideas and solutions aligned to the specific requirements of our partners and their projects. Indeed, in the course of the last over six decades, we have developed a number of products and systems that have gone on to become industrial standards, offering value-adding benefits such as previously unattainable performance, easier application under difficult weather conditions, improved resource efficiency and climate friendliness and, not least, greater occupational safety.

*MC continues to set new standards with its innovative developments: Pioneering achievements include Expert Proof one, a bitumen- and solvent-free waterproofing system, and DySC® technology, an all-mineral protective lining system for drinking water pipes and tanks that offers unprecedented density and durability; MC's new patented polycarboxylate ether technology for mortar and concrete admixtures, and KineticBoostTechnology®, which allows coatings to be applied safely even in high humidity and low temperatures just above freezing, as well as 3D concrete printing and cement-free concrete are the latest examples of MC's pioneering efforts.*















## Global manufacturing footprint founded on advanced technology

MC-Bauchemie operates some 20 manufacturing centres around the world in the production of building chemical products and construction materials of the highest quality, including admixtures, mortar, plaster, render, screed, adhesives, special-purpose coatings, waterproofing injection compounds and joint sealants.

We make these products using especially selected raw materials and specifically developed formulations in our own facilities, utilising the most advanced technologies available married to the know-how of our employees, be it in Germany, Poland, India, Malaysia, Ghana, Brazil or Chile.

### **Assuring quality worldwide**

Quality and customer focus headline the principles on which our business is based – principles that apply to all our production activities: R&D and testing in the labs, admixture and bitumen production, warehousing and logistics. Our factories are certified to ISO 9001. And they are regularly audited both by MC's own quality management and accredited external agencies.

Our laboratories in the different production departments check each product batch before it is dispensed, bottled, packed and despatched. In this way, we can be sure that only materials that meet our high quality requirements leave our factory gates. With our modern logistics, we also ensure that orders reach their customers within the specified timeframe.

*Since 2012, we have been manufacturing a new generation of concrete and mortar admixtures on the basis of polycarboxylate ethers (PCE). Production takes place in a new plant using our own, patented process in line with the latest state of the art. We are thus able to develop, test and produce concrete and mortar admixtures more independently, more quickly and more accurately aligned to customer requirements.*



## Get ahead with MC-Bauchemie

“A company is only as good as its employees” – this quote comes from company founder Heinrich W. Müller and is one of our guiding principles. Consequently, we have a certain set of criteria according to which we develop our people, offering them individual scope and opportunities to progress their career.

Whether trainees, graduates or professionals, motivated employees with a passion for what they do as well as good old common sense are always welcome in our company – in research and development, in sales, in marketing and product management, in administration, in our warehousing facilities and in production. Sound technical knowledge is, of course, important; however, we place a much greater emphasis on the personality and attitude to work of the employee. Those who have the necessary technical know-how who also enjoy working with people from different nations and cultures, and who show openness, curiosity and reliability, are always going to be right for MC.

### **Tailored career development**

In addition to their own individual familiarisation phase, newcomers to the company are offered systematic basic training courses to introduce them to our product technologies and processes so that they can quickly move on to their own tasks and projects. As they gain experience, they are offered further training opportunities – from in-house language courses to specific seminars relating to our project business and sales work.

We offer a wide range of activities allowing a great deal of personal scope combined with an appropriate level of responsibility. Further benefits include short, direct decision-making paths and the kinds of attractive development opportunities associated with an internationally active, family-owned company. We do not have fixed career ladders. Rather, it is up to each employee to build his or her own stairway to the top.

*Aside from systematic basic training courses held in our modern seminar and training centre, we also offer our employees individual familiarisation, with continuous professional development to help them shape their career.*













## MC solutions in demand throughout the world

MC solutions have been used in major construction and repair projects around the world for more than 60 years now. Developers, promoters, architects, planning engineers and applicators know they can rely both on the advice of our experienced consultants and on the high quality of our product systems.

Here is just a selection of major projects in which MC has recently been involved:

1. Aer Lingus, Dublin <sup>CR, SP</sup>
2. Alqueva Reservoir Dam, Portugal <sup>IN</sup>
3. Arlamow Hotel, Poland <sup>AD, CA</sup>
4. Bossler Tunnel, Germany <sup>AD</sup>
5. Brisbane West Wellenkamp Airport, Australia <sup>AD</sup>
6. Cable Tunnel, Singapore <sup>IN</sup>
7. City Arena, Trnava Stadium, Slovakia <sup>AD, CC, GM</sup>
8. Electro Alfa, Romania <sup>FC</sup>
9. Ferenc Metro Station, Budapest, Hungary <sup>AD, CC</sup>
10. LSG Sky Chefs Commercial Kitchen, Germany <sup>FC</sup>
11. Service Hangar of the Special Air Mission Wing of Germany's Federal Ministry of Defence, Germany <sup>FC</sup>
12. Maracanã Stadium, Rio de Janeiro, Brazil <sup>CR, IN</sup>
13. Schloss Oranienburg (Chateau), Germany <sup>MR</sup>
14. Rehabilitation of Sewerage Structures in Hamburg, Germany <sup>US</sup>
15. SMART Tunnel, Malaysia <sup>IN</sup>
16. Riem Arcaden Multi-Storey Car Park, Munich, Germany <sup>CR, FC, IN, SP</sup>
17. Potable Water Tanks in Hinterbrühl, Austria <sup>CR, SP</sup>
18. Upper West Berlin, Germany <sup>AD, CC, RA</sup>
19. Waterview Tunnel, New Zealand <sup>IN</sup>
20. Trairi Wind Farm, Brazil <sup>SP</sup>

*AD* Admixtures

*CA* Curing Agents

*CC* Concrete Cosmetics

*CR* Concrete Repair

*FC* Floor Coatings

*GM* Grouting Mortar

*IN* Injection Systems

*MR* Masonry Repair

*RA* Release Agents

*SP* Surface Protection

*US* Underground Sewer Systems

For further references ...

... go to our website at

<https://www.mc-bauchemie.com/references/>





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the MC website:  
[www.mc-bauchemie.com](http://www.mc-bauchemie.com)

