

Editorial In Brief



Dear readers.

Every day, our customers face new challenges, whether in concrete production or in infrastructure, industry or building construction. What unites all of them is the goal of creating durable, safe and sustainable structures.

This is exactly where MC stands by their side. We support them with expertise, commitment, and customised solutions that prove themselves in practice. You can learn more about this in the current issue. Our main feature focuses on the special requirements of multi-storey car parks. In terms of load, safety and durability, these structures are among the toughest tests for coating systems.

Beyond that, we take you on a journey to exciting projects and innovations worldwide: from the Silvertown Tunnel in London, to aesthetic design floors for sophisticated architecture, to an international education project in Africa and Asia, and finally to the façade renovation of the Copan Building in São Paulo. Each of these examples demonstrates how deeply we value quality, knowledge transfer, and partnership-based collaboration. As always, we round off our issue with news and internal updates.

Finally, I would like to wish you and your families a happy festive season and a *good, inspiring start to the new year!*

Enjoy reading!

Nicolaus M. Müller

In he halls

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Rethinking multi-storey car parks - durable,

Car parks are the ultimate stress test for coating systems. Mechanical loads, temperature fluctuations, moisture, chloride exposure, UV radiation and strict safety requirements demand durable, technically sophisticated solutions. MC offers a complete, internationally proven range of car park coating systems – from standard to high-end solutions - and sets new benchmarks in sustainability and performance with MC-DUR TopSpeed flex plus.

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Managing editor/Concept

Saki M. Moysidis | MC-Bauchemie

Saki M. Moysidis | MC-Bauchemie

iventos I Feldstraße 9a. 44867 Bochum

Credits and legal

MC-Bauchemie Müller GmbH & Co. KG Am Kruppwald 1-8 | 46238 Bottrop

Tel. +49 (0) 20 41/1 01-0 Fax +49 (0) 20 41/1 01-688

info@mc-hauchemie de www.mc-bauchemie.de





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MC-FEST 2025: MC-BAUCHEMIE CHILE **CELEBRATES ITS 10TH ANNIVERSARY**





MC-Bauchemie Chile used this year's MC-Fest as an opportunity to celebrate a special anniversary: ten years of MC-Bauchemie in Chile. The celebration was held at the traditional Club Manquehue in Santiago de Chile – a venue that unites German culture with Chilean hospitality, providing the perfect setting for an unforgettable evening. More than 80 quests from the construction industry, including partners, customers and representatives of leading construction companies and professional associations, attended the event.

Milan Ceric, Managing Director of MC-Bauchemie Chile, welcomed the guests and set the stage for an unforgettable evening. "With the MC-Fest marking the tenth anniversary of MC-Bauchemie Chile, we are not only looking back on a successful decade but also honouring the dedication of our team, the trust our clients have placed in us and the strong partnerships we have built over the years," said Milan Ceric with pride. He added, "These first ten years are just the beginning of a long journey in Chile. We will continue to grow, innovate and contribute to a better future for the country's construction industry."

Since its founding in 2015, MC-Bauchemie Chile has developed into a reliable partner for high-performance and sustainable construction chemical solutions. Today, the company plays an important role in the development of the Chilean construction industry – a fact impressively reflected by the anniversary celebration. Iván Guerrero, a well-known Chilean journalist and presenter, quided quests through a diverse program highlighting the company's history, its major milestones over the past decade and a look ahead to the future of construction.

Expert lectures and discussions on the future of construction

A key highlight of MC-Fest 2025 was a series of expert lectures and panel discussions addressing current challenges and future perspectives of the construction sector. Topics ranged from technolog-

ically complex large-scale projects and sustainable construction to the industrialisation of building processes through modern technology and prefabrication. The program concluded by emphasising the importance of knowledge transfer and collaboration between companies, institutions and experts - key factors in fostering innovation and developing future-proof solutions. All contributions underscored the shared goal of advancing the construction industry through innovation, quality and cooperation values that are also central to MC-Bauchemie Chile's



Jagues Pinto and Nicolaus M. Müller honour MC-Chile

"Over the past ten years, MC-Bauchemie Chile has grown continuously and set benchmarks through close partnerships, technological excellence and the courage to explore new paths. These values will continue to guide us in the future," praised Jaques Pinto, Regional Director LATAM at MC-Bauchemie, in his address to the Chilean team led by Managing Director Milan Ceric. Nicolaus M. Müller, Managing Partner of the MC-Bauchemie Group, congratulated the team in his video message on a successful decade: "Today we celebrate a unique milestone – ten years of MC-Bauchemie in Chile. Ten years of dedication, innovation and commitment that would not have been possible without each and every one of you. We look back with pride at what we have achieved and look forward with excitement, because the best is yet to come. Let's continue on this successful path together!"

An evening of connection and cultural exchange

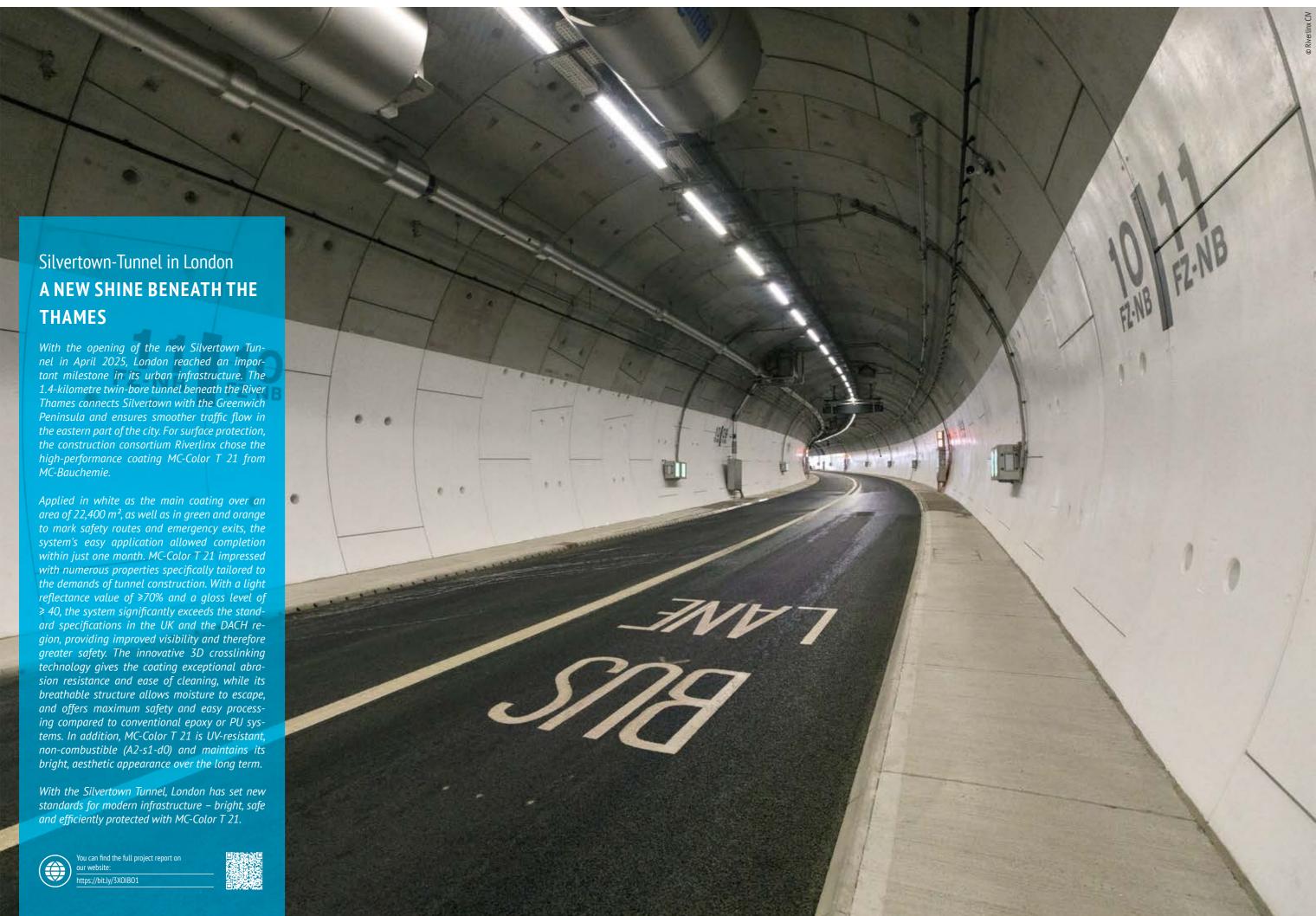
In addition to professional exchange, MC-Fest 2025 also offered space for culture and music. The evening concluded with a captivating live performance by Joaquín Donoso, one of Chile's most renowned accordion players, and an Italian singer who built a musical bridge between Europe and Latin America, beautifully reflecting the international spirit of MC-Bauchemie.





Big Picture

Big Picture



Innovation

SUSTAINABLE ECO2 CONCRETE FILLERS



With Nafuquick eCO2 and Emcefix F Both new products are specifically designed to meet eCO2, MC has launched sustainable alternatives to traditional concrete fillers. They not only offer significant CO₂ reductions but also impress with their quality and meet the current requirements for sustainable construction.

the requirements of environmentally conscious construction: The universal filler Nafuquick eCO2 achieves around 40% CO2 reduction compared to the conventional version. The fine filler Emcefix F eCO2 reduces CO₂ emissions by more than 34% and is ideal for demanding applications on fair-faced and architectural concrete as well as precast elements. Both products are designed to complement CO₂-re-

duced concretes - perfectly supporting MC-Bauchemie's strategy of developing sustainable building materials that meet ecological requirements while also fulfilling high technical performance standards.



Jana.Schuetten@mc-bauchemie.de

CLIMATE-FRIENDLY REACTIVE WATERPROOFING: MC-PROOF 800 NEXT



With MC-Proof 800 Next. MC has launched a new climate-friendly reactive sealant on the market with a reduced carbon footprint, Emicode EC1PLUS certification and sustainable packaging.

With the introduction of MC-Proof 800 Next, MC-Bauchemie is expanding its proven MC-Proof product range with a particularly environmentally friendly variant. The new system impresses with its CO2-reduced formula, high yield and the fact that it can be applied without primer. It also bridges cracks and is UV and ageing resistant, making it ideal for

new construction and renovation of building components in contact with the ground as well as waterproof components in accordance with PG-FBB. A particularly sustainable feature: the 12 kg liquid component is available either in a reusable 30-litre mixing bucket or in a 12-litre recycling bucket, which reduces packaging waste and makes more efficient use of freight space.



Sascha-Friedrich.Kaufmann@mc-bauchemie.de

NEW FINE MORTAR FOR WASTEWATER APPLICATIONS

With ombran MHP fine, MC-Bauchemie is expanding the ombran MHP product family with a fine-grained variant that impresses with its optimised processing properties and versatile range of applications in the wastewater sector.

The product is suitable for use as a surface coating, for reprofiling breakouts and defects, for levelling surfaces in masonry manholes, and also for

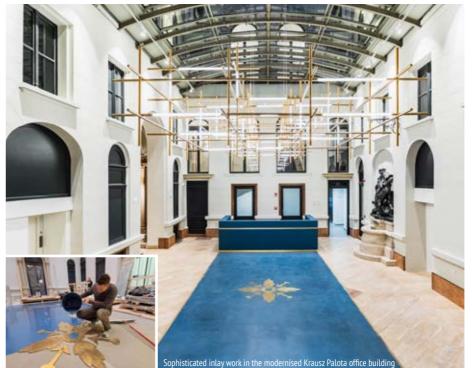
filling the joints between masonry and tiles as well as for creating coving. The adapted grading curve facilitates the application of the product, eliminating the need for a separate bond coat. Thick-layer application is also possible, combining reprofiling and coating in a single step.



Sven Messmann@mc-hauchemie de











AESTHETICS MEET PRECISION – DESIGN FLOORS FOR DEMANDING ARCHITECTURE

In contemporary architecture, the floor is far more than a functional element, it plays a crucial role in shaping the perception of a space. Whether in hotels, offices or public areas, seamless mineral surfaces are trending. They create a spacious, calm and high-quality impression, combining technical performance with minimalist elegance. Exposed concrete floors and design terrazzo surfaces, once known primarily from industrial applications, have now evolved into sought-after design elements. With MC's flooring systems, you can create such surfaces with the highest precision – technically sophisticated, creatively flexible and long-lasting.

Two current projects in Budapest, the Four Points by Sheraton Hotel and the Krausz Palota building, impressively demonstrate how aesthetics and functionality form an ideal combination through MC's flooring systems.

Exclusivity on the Danube - Four Points by Sheraton

In Budapest's Úilipótváros district, the Four Points by Sheraton Hotel has been created as an ensemble that combines modern living, working and unique experiences. In the hotel area, a 350 m² seamless MC design terrazzo floor provides the desired design. The special feature: 1,300 linear metres of precisely embedded copper profiles structure the surface and give the floor an exclusive, artisan, precision-crafted touch.

The challenges were significant: first, uneven substrates, existing cracks and varying screed qualities had to be evened out before a technically advanced floor system could be applied. The team of MC-Hungary developed a multi-step solution: from priming with MC-DUR 1320 VK

and installing a mixture of MC-DUR 1322 with white and grey aggregates (0.5 to 5 mm), followed by several days of grinding, all the way to final sealing with MC-DUR 2095 M.

The result convinces in every respect: a smooth, highly durable surface that emphasises the architectural concept and enhances the hotel's elegant atmosphere. The precise lines of the copper profiles blend harmoniously into the interior design.

Krausz Palota – historical elegance reinterpreted

The versatility of MC's flooring systems is also showcased by the Krausz Palota project on the famous Andrássy Avenue in Budapest. The palace, built in 1885, was comprehensively renovated by BORD Építész Stúdió, converted into a modern office building, and refurbished and certified in accordance with international BREEAM standards.

In the impressive reception area, the choice fell on a blue MC terrazzo floor with an integrated

logo, an intricate inlay that required exceptional craftsmanship. Here as well, the basis was an MC terrazzo flooring system known for its excellent mechanical strength, colour stability and chemical resistance. The result: a homogeneous, brilliant surface that unites historical architecture with modern aesthetics. A real eye-catcher: high-quality, elegant, robust and easy to maintain.

Maximum freedom in design and execution

Whether boutique hotel or listed office building, MC's flooring systems offer planners and architects maximum freedom in design and execution. Thanks to precise workmanship, long-lasting material quality and a wide variety of colours and textures, floors are created that set standards both technically and aesthetically while meeting international sustainability requirements.

Both Budapest projects show that when aesthetics meet precision, floors emerge that give spaces a unique character; inspiring examples of modern architectural design.

Main Feature Main Feature



Whether new construction or refurbishment, multi-storey car parks place high demands on planning and execution. In addition to protecting reinforced concrete from chlorides and sealing cracks and joints, bright, safe and user-friendly design is one of the key objectives. For owners, durability, cost efficiency and short closure times during refurbishment are equally crucial. This variety of technical and design requirements shows that multi-storey car parks cannot be built according to a standard template. Each facility poses unique challenges in terms of construction, use and design.

While in regions like Northern and Central Europe freeze-thaw cycles, de-icing salts and temperature fluctuations dominate, warmer regions focus more on UV protection and thermal loads. Added to this are the high requirements for crack bridging, slip resistance, noise reduction and colour guidance.

National and international standards, such as the German 'Technical Rule for the Maintenance of Concrete Structures' (DIBt) or EN 1504-2, define the performance parameters modern coatings must meet. MC, however, goes far beyond these standards: with precisely coordinated system structures, fast processing and individually com-

binable products, MC offers solutions that set new benchmarks in cost efficiency, durability and sustainability.

MC's modular system offers variety from just a few components

The strength of MC-Bauchemie lies in the system logic of its product portfolio. With just a few core products from the MC-DUR family, which can be flexibly combined depending on requirements, various system structures can be implemented. The car park modular coating system essentially includes industrial floor resins such as MC-DUR 1320 VK, MC-DUR 1322, MC-DUR 2210 and MC-DUR 2211 MB, as well as various products of the MC-DUR TopSpeed range. They form the basis for numerous surface protection systems, ranging from OS 8 (generally rigid) to OS 11 a/b (increased dynamic crack bridging) and OS 10 and OS 14 (both offering very high dynamic crack bridging). This modular design reduces complexity for planners and applicators while enabling precise adaptation to technical, economic and aesthetic conditions. MC-Bauchemie also offers additional system solutions for complex coating requirements, such as conductive products for discharge pads in entrance areas or cathodic corrosion protection (CCP).

The result is a comprehensive product range that can address all challenges, from ground-bearing concrete slabs in underground garages to openair decks. Flexibility in colour design also plays a major role: bright surfaces improve light yield and safety, while customised colours provide orientation and support the clients' designs and brand identity. Many products are also manufactured locally to reduce transport distances and conserve

Less thickness, more performance with MC-DUR TopSpeed flex plus

A central highlight of current developments is the surface protection system MC-DUR TopSpeed flex



system, despite having around 50% lower material consumption and correspondingly reduced layer thicknesses. This unmatched performance record has been confirmed by new test certificates and assessments from KIWA. "With the new OS 8/11a MC-DUR TopSpeed flex

not only meets the properties of a rigid OS 8 sys-

plus, we have created System 2.0," says Dr Jonas Tendyck, Head of Product Management for Resin Flooring and the Technical Director for Reactive Resins in the DACH region at MC-Bauchemie. "We achieve the same or even higher technical performance with significantly less material. This saves resources, reduces plastic consumption and significantly shortens construction times thanks to the binder technology of the MC-DUR TopSpeed products." (Read more in the interview on p. 11)

MC-DUR TopSpeed flex plus in use in an underground car park in Ulm

In summer 2025, a underground car park in Ulm's Fischerviertel (Germany) was comprehensively refurbished using the OS 8 system MC-DUR TopSpeed

plus, a new generation of rapid car park coating flex plus. Following a system comparison, the ownthat combines sustainability, cost effectiveness er selected the MC system, impressed by its high and technical performance. This innovative system dynamic and static crack bridging, abrasion resistance and mechanical durability. The system buildtem but also fulfils all requirements of an OS 11a up on approximately 3,500 m² floor area consisted of MC-DUR 1177 WV-A, MC-DUR TopSpeed SC and MC-DUR TopSpeed flex plus, with MC-DUR Top-Speed as the wearing layer. The walls were coated with the high-performance coating MC-Color T 21. Despite the confined spaces and tight schedule, the project was completed on time. The result is a durable, resilient, and easy-to-maintain underground car park that convinced the owner with its technical and aesthetic qualities.

OS 10 system on an exposed deck with E-charging stations in Gelsenkirchen

The OS 10 MC-DUR TopSpeed flex plus system, that is built from the same products but differs in consumption rates, was also used in the B+B multi-storey car park in Gelsenkirchen (Germany). Two parking decks - the covered Deck 8 and the open-air Deck 9 with parking areas and traffic lanes – were coated with the high-quality OS 10 MC system. The goals were to eliminate depressions on the decks, avoid the formation of standing water and ice in winter, and permanently bridge the stressed joints of the precast concrete slabs.

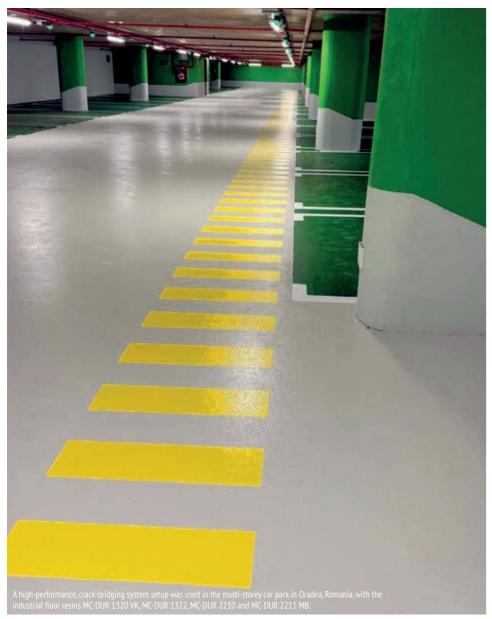
and inviting car parks. Our latest brochure, 'Solutions for Multi-Storey and Underground Car Parks', protect and repair these structures ly appealing. From joint sealing, crack repair and surface protection to fast, robust floor coatings - MC's answer for every requirement. The focus is always on retaining the structure's long-term value, minimising closure times and creating a safe, bright and user-friendly en-

Find out how we support planners, builders and contractors with our experience, expertise and innovative product systems for the construction, renovation and refurbishment of multi-storey car parks and underground car parks.





Main Feature



MC was chosen because the system can be processed in challenging weather conditions ranging from 2 °C to 35 °C, cures quickly thanks to integrated KineticBoost® technology, and becomes rainproof after just 30 min. A particular challenge was the integration of E-charging stations, which were highlighted with colour and electrically insulated. The result is a long-lasting protection with high wear and colour stability, good cleanability and excellent functionality - making it ideal for modern car parks with high traffic volumes, EV charging zones and aesthetic requirements. The bright colour scheme also enhances orientation and safety at night. The results were so convincing that by 2026, E-charging stations in 50 B+B car parks across Germany will be renovated using this system.

Long-term test confirms durability of MC systems after 20 years

A recent test report by the Rheinland-Pfälzische Technische Universität Kaiserslautern-Landau (RPTU) in Germany demonstrates the impressive durability of MC's car park coating systems. The OS 8 system consisting of MC-DUR 1200 VK and MC-DUR 1252, was installed over 20 years ago in the P3 car park at Zurich-Kloten Airport and shows remarkable resistance. Even after decades mania, is one of the largest car park coating projects

of traffic load, the coating reliably protects the concrete structure, including against chloride ingress, significantly contributing to the long-term preservation of the building substance.

The Parking Abrasion Test (PAT) revealed an average wear depth of just 0.1 mm after two decades of use, which is a clear evidence of the system's exceptional durability. MC-DUR 1252 also impresses with its chemical resistance, low flammability and ability to integrate seamlessly into existing structures. For owners and operators, this means long-term planning reliability, extended maintenance intervals and reduced lifecycle costs. Fewer refurbishments save material, energy, and CO₂ emissions over the years, as well as ultimately saving a lot of money.

As you can see from the above and the following references, MC's car park coatings perform well in diverse climatic and structural conditions, not only in Germany but also in south-eastern Europe.

Efficiency and colour design in the Oradea car park in Romania

With around 11,000 m², the car park in Oradea, Ro-

in Eastern Europe. The system build-up used industrial floor resins such as MC-DUR 1320 VK, MC-DUR 1322, MC-DUR 2210 and MC-DUR 2211 MB, which have been combined to create a high-performance coating system with a crack-bridging intermediate layer. This offers high load-bearing capacity when subjected to strong shear and lateral forces, excellent crack bridging, and resistance to temperature fluctuations, frost and weathering, making it ideal for heavily used decks and ramps.

The application took place in multiple construction phases and under challenging weather conditions, providing an ideal opportunity to demonstrate the workability, effectiveness and reliability of the MC systems. A key feature of the project was the local production of materials, which significantly reduced transport distances and emissions while ensuring reliable scheduling. Additionally, the wall surfaces received a coloured finish using the MC-Color Flair pure system, creating a bright, modern appearance and serving as a visual guidance system for users.

Adding value through durability

In car park refurbishment, durability is a key economic factor, as every refurbishment results in closure times, loss of revenue and logistical challenges. MC-Bauchemie's long-lasting coating systems reduce maintenance intervals and increase availability, providing clear advantages for operators and users alike. The combination of mechanical durability, chemical resistance and dynamic crack bridging makes them a sustainable investment. Thanks to the high weather resistance of the MC-DUR TopSpeed systems, even exposed decks can be refurbished quickly and without enclosures, which is ideal for heavily frequented inner-city facilities.

With over 60 years of experience and numerous international projects, MC-Bauchemie combines global expertise with local consulting competence. Technical advisors support owners, planners, and applicators in selecting and applying systems, developing solutions that excel in technical, economic and aesthetical terms.

Thanks to innovations such as the highly crack-bridging MC-DUR TopSpeed flex plus and its associated system structures, as well as a comprehensive range of products for refurbishing car parks and underground garages, MC has established itself as a leader in durable, resource-efficient and customisable car park coatings. These help to ensure that car parks are safe, bright and long-lasting structures in modern cities.

Your Contacts



onas.Tendyck@mc-bauchemie.de



Special features and advantages of MC-DUR TopSpeed flex plus

INTERVIEW WITH DR JONAS TENDYCK

"Our goal is always to find a long-lasting solution - not just a quick one."

Dr Jonas Tendyck

Dr Jonas Tendyck (32) has headed product management in the Resin Flooring division for five years and has also served as Technical Director Reactive Resins of the DACH region at MC-Bauchemie since 2024. We spoke with the PhD chemist about the special features and advantages of the new MC-DUR TopSpeed flex plus surface protection system, which can be used both as an OS 8 and an OS 11a system.

Dr Tendyck, MC-DUR TopSpeed flex plus is considered an innovative step forward in car park coatings. What makes it so special?

The key advancement lies in the combination of sustainability and performance. The system not only meets the requirements of a rigid OS 8 system but, despite around 50% less material and reduced layer thicknesses, also fulfils all requirements of an OS 11a system.

This significantly reduces material consumption compared with a standard OS 11a build-up while fully meeting all requirements for crack bridging, adhesion, and wear resistance. It's an important step towards resource-efficient construction.

How did you achieve this level of performance despite the reduced layer thickness?

We use products with optimised binders to achieve higher elasticity and wear resistance using less material.

At the same time, the products also feature the proven KineticBoost® technology, which allows extremely fast curing even at low temperatures and high humidity. As a result, the systems can be applied without enclosures or heating and to its high wear resistance and crack-bridging

with minimal downtime - a significant advantage, especially for winter refurbishments or exposed decks.

How important is sustainability in the development of such systems?

Very important. To us, sustainability means more than just reducing plastic content; it also means extending the service life of our systems.

A coating that lasts 15 or 20 years saves enormous amounts of material, energy and CO₂ over its lifetime. This long service life is primarily achieved through the excellent wear resistance, as proven by PAT test results.

Our goal is always to find a long-lasting solution - not just a quick one. MC-DUR TopSpeed flex plus contributes to exactly this: lower resource consumption with longer service life.

For which applications is the new system particularly suitable?

The system is ideal for heavily frequented car parks, ramps and upper decks, and for areas subject to high mechanical and weather-related loads. Thanks

OS 11a system. capability, it is suitable for OS 8 and OS 11a applications. It is also the ideal choice for situations where coating work must be completed quickly and/or under challenging conditions. In addition, the surface offers excellent cleanability, and high colour stability, which is particularly important in bright car parks or

Dr Jonas Tendyck

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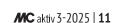
Interview

So, what does the introduction of this MC-DUR TopSpeed flex plus surface protection system mean for MC and the industry as a whole?

those requiring specific corporate colours.

For us, it is a clear commitment to innovation. We demonstrate that technical performance and ecological responsibility are not mutually exclusive. For planners, operators and applicators, this creates real added value in the form of shorter closure times, less effort and a sustainable contribution to preserving infrastructure.

I am convinced that our MC-DUR TopSpeed flex plus system will set new standards in car park construction in the future.







Sharing knowledge - building the future in Africa and Asia

EDUCATIONAL PROJECT TO IMPROVE THE QUALITY OF CONSTRUCTION

From 2021 to early 2025, MC-Bauchemie implemented an international educational project in Vietnam, Malaysia, Guinea, Ghana and Ethiopia as part of the develoPPP funding programme run by the German Investment and Development Society (DEG) and the Federal Ministry for Economic Cooperation and Development (BMZ). The develoPPP project by MC-Bauchemie and DEG aimed to offer practical training and further education opportunities to craftspeople, technicians, students and engineers in Vietnam, Malaysia, Guinea, Ghana and Ethiopia.

The train-the-trainer concept was also particularly important, as it enabled local trainers to pass on this knowledge and integrate it into the countries' education systems. From 2021 to early 2025, despite the pandemic, political crises and difficult conditions in the countries mentioned, a total of more than 7,000 people from the construction sector were trained in practical courses.

Sustainable impact – far beyond the project

From the outset, the project was designed for sustainability and long-term impact. The curricula at several universities were expanded to include topics such as waterproofing and concrete repair. In addition, training centres were set up that will continue to operate after the end of the project, thus permanently anchoring the knowledge acquired locally.

"The project has impressively demonstrated that investments in education have a sustainable impact. Despite difficult circumstances, we were able to train thousands of people in Vietnam, Malaysia, Guinea, Ghana and Ethiopia.

They now have the knowledge and skills to improve their chances on the job market and raise the quality of construction to a higher level," says Jens Morgenstern, head of the project at MC-Bauchemie, drawing a thoroughly positive conclusion and adding: "In addition, the project has created long-term structures for knowledge transfer through integration into existing education systems, the recognition of certificates and the training of local trainers."

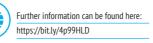
Roland Schepers, Managing Director of Botament GmbH, provided information about the sustainable BotaGreen® product family.

SUSTAINABILITY CONGRESS IN BOTTROP

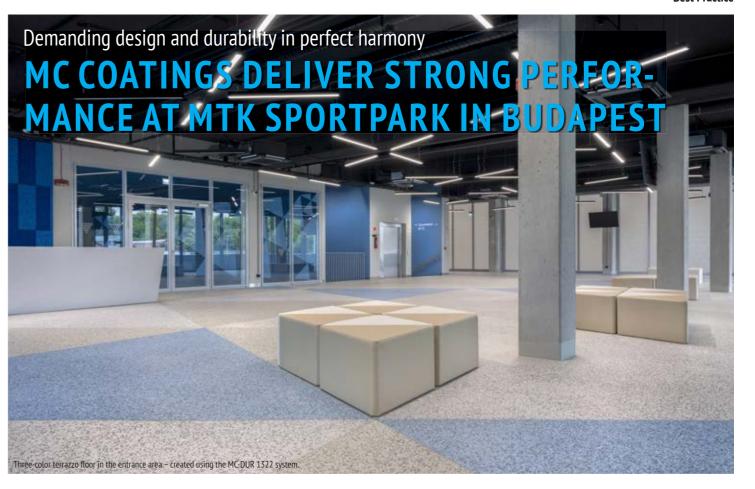
At the beginning of September, the German Association for Small and Medium-sized Businesses (BVMW) invited representatives from a wide range of industries to the second Ruhr Area Sustainability Congress at MC's Training Centre in Bottrop. The event was hosted by Botament GmbH, a sister company of MC.

The congress served to show how companies can combine ecological, social and economic sustainability and thereby strengthen their future viability. There were various presentations, such as on the topic of 'Resilient employees in resilient companies as a fundamental part of the resilient

city'. Roland Schepers, Managing Director of Botament, took the opportunity to provide insights into the sustainable product family 'BotaGreen®' developed by Botament. Among other things, this product family focuses on CO2-reduced binders, recycled materials and renewable raw materials. The presentation showed how concrete product innovations contribute to realising ecological responsibility in construction chemicals.







A once-abandoned industrial site in Budapest has been transformed into a vibrant place for sports, culture and community: the new MTK Sportpark has turned the grounds of the former Taurus rubber factory into Hungary's most modern sports and event complex. High-quality coating systems from MC-Bauchemie now ensure durable and aesthetically appealing floor surfaces throughout the facility.

This construction project is one of the most significant urban revitalisations in the Hungarian capital. On an area of around ten hectares, the outdated industrial site was completely redesigned.

Across 8,000 m² of stairways and walkways, high-quality MC coating systems ensure long-term durability and easy maintenance.

The result is an ultra-modern sports and event complex featuring a multifunctional arena with 4,900 seats, a training hall and several outdoor courts for sports such as basketball, handball, volleyball, rhythmic gymnastics, fencing and football. Planning began in November 2021, and the grand opening took place in May 2025. The client was the long-established Hungarian sports club MTK, construction was carried out by Bayer Construct Zrt., and architectural design was entrusted to the firm Sagra Építész Kft.

Design and technical challenges

Transforming the former factory site presented the planning team with a number of demanding tasks. In addition to the required subfloor remediation and surface unsealing, the goal was to develop a floor concept for the multifunctional arena that would be both permanently resilient and visually high-quality. Special attention was given to the large visitor zones: in the entrance area and foyers, a 1,000-m² terrazzo floor was created using MC's premium flooring systems. Cast onsite in three colours, the application demanded a high degree of precision, craftsmanship and material expertise. The striking triangular design is inspired by MTK's logo and shapes the building's modern character. In addition, around 8,000 m² of stairways, walkways and circulation areas had to be equipped with long-lasting, slip-resistant and easy-to-clean floor coatings.

MC-Bauchemie system solutions impress

To meet these demanding flooring requirements, high-performance coating products from MC were used. The most important factor was

not only technical performance but also the customised solution developed in close collaboration between the planners, the client and MC-Hungary, tailored precisely to the customer's expectations.

The decorative seamless terrazzo floor was based on the durable epoxy resin MC-DUR 1322. This system offers excellent adhesion, high abrasion resistance and a colour-stable, long-lasting surface. Heavily frequented stairways and walkways were coated and protected using MC-DUR 1320 VK as the primer and MC-DUR 2095 M as the sealant. The latter offers excellent adhesion, high mechanical strength and outstanding UV stability, while also being easy to apply and simple to clean. The combination of these systems resulted in a functional, robust and architecturally high-quality flooring solution perfectly suited to the demands of a modern sports and event centre.

A milestone in urban renewal

The MTK Sportpark is not just a new sports venue – it is also a symbol of the successful transformation of a former industrial site into an open, sustainable urban district. Thanks to the durable and visually appealing flooring solutions from MC-Bauchemie, the project meets the highest standards of quality, functionality and design.

Your Contact



Comprehensive modernisation to a climate-neutral cement plant

MC PRODUCTS SECURE THE K6 MEGA **PROJECT IN LUMBRES**



With the K6 project in Lumbres, northern France, EQIOM, a company of the CRH Group, is driving the transition of its French cement The goal is to significantly reduce energy consumption and lower CO₂ emissions in the long term. MC-Bauchemie France is supporting the modernisation with customised sealing and grouting solutions that meet the high technical demands of this large-scale project.

Supported by both the French government and the EU, the project involves the construction of a new, energy-efficient clinker production line. The new line aims to increase thermal efficiency and enable the use of alternative fuels



- with the target of achieving an 80% substitution rate by 2027. The first construction phase began in June 2024 and included, among other plant towards more sustainable production. things, the installation of the new kiln foundations, where MC-Bauchemie's sealing and grouting systems were also used.

Sealing and grouting under a tight schedule

The assembly of the large-scale kiln units was subject to a tight schedule and required an efficient yet chemically resistant sealing of the concrete foundations. In addition, a high early-strength grout capable of being applied in large layer thicknesses within short installation times was needed.

Another challenge was the mechanisation of the installation process to ensure that the large volumes of grout could be placed guickly. precisely and with consistent quality.

Efficient foundation sealing and precise

For sealing the foundation surfaces, the solvent-free, acid- and alkali-resistant protective and sealing coating Nafuflex S 3 was used, meeting the high requirements for chemical resistance and environmental compatibility.

For the precise underpouring and alignment of the kiln foundations, the project team selected the high-performance grout Emcekrete 60 A, complemented by Emcekrete 50 A for thicker layers. The key advantage: Emcekrete 60 A can be applied in a wide range of layer thicknesses from 15 to 200 mm, simplifying material logis-

tics and reducing potential sources of error. With its 5 mm aggregate size, the product was also ideally suited for mechanised application. CNC Distribution, a long-standing partner of MC, ensured just-in-time delivery of the material to the site, while Bouyques Travaux Publics carried out the precise and rapid mechanised installation.

In addition to the kiln foundations, Emcekrete was also used for grouting and securing other machine foundations and conveyor supports.

Practical construction chemistry for sustainable industrial policy

Thanks to the close collaboration between all parties involved, the sealing and alignment of the kilns were completed on schedule. The reliable performance of the products used and the on-site technical support provided by the MC team built trust - both with the client and with all other companies involved in the con-

The K6 project in Lumbres serves as an exemplary illustration of how sustainable industrial policy and practical construction chemistry can work hand in hand - and how MC's product systems are contributing to the decarbonisation of the French cement industry.





In Ružomberok, Slovakia, the 204-m-high industrial chimney of the Mondi SCP pulp and paper mill received a new surface protection and visual refreshment. 20 years ago, a coating system from MC-Bauchemie was applied to the chimney, now it has been renewed with the high-performance coating system MC-DUR 2496 CTP.

The industrial chimney of the Mondi SCP plant is one of the most striking structures in Slovakia it is the country's third-highest industrial chimney and the seventh-highest building overall. Built in 1981 from reinforced concrete, it has since shaped the skyline of Ružomberok, a key location of the pulp and paper industry.

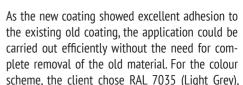
The recent refurbishment work was carried out by Vertical Industrial a.s., the same company that had applied the original coating 20 years earlier using MC-Bauchemie products. The aim of the project was to ensure long-term protection of the concrete surface and to preserve the chimney's distinctive appearance.

Challenging conditions in an exposed location

After 20 years, the existing coating had weathered due to environmental exposure. On a total surface area of around 5,200 m², contamination, deposits and weathered areas had to be removed. In addition, the chimney's exposed position and working height of over 200 m required precise logistical planning and the use of specialised access tech-

Efficient renewal: strong adhesion, fast curing, striking appearance

Following thorough cleaning of the concrete surface by high-pressure water jetting, Vertical Industrial a.s. applied two coats of the high-performance coating system MC-DUR 2496 CTP, which can be applied by brush, roller or spray. The low-solvent, coloured epoxy resin offers excellent adhesion, high chemical and UV resistance as well as outstanding durability - key properties for long-term protection in industrial environments. Moreover, MC-DUR 2496 CTP impresses with its extended working time combined with accelerated curing, which is independent of humidity and temperature.



This combination ensures high application relia-

bility and flexibility, even under challenging site

carried out efficiently without the need for comscheme, the client chose RAL 7035 (Light Grey), RAL 9003 (Signal White) and RAL 3020 (Traffic Red), giving the chimney a fresh yet distinctive ap-

Long-term protection with a modern coating system

Thanks to the MC-DUR 2496 CTP coating system, the Mondi SCP industrial chimney is once again optimally protected against weathering and pollutants. The project also demonstrates the long-term performance of MC systems. By using MC-DUR 2496 CTP, the refurbishment was carried out efficiently and the structure's service life further extended. An impressive example of how MC's high-quality surface protection systems ensure the durability of industrial structures while simultaneously enhancing their aesthetic appeal.

Your Contact

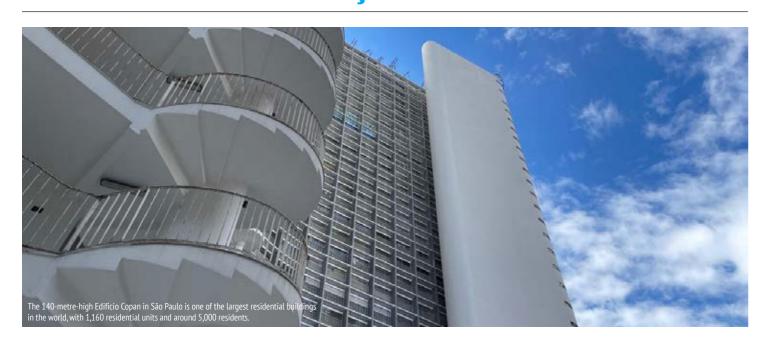
conditions.



Lukas.Lehotskv@mc-bauchemie.sk

Renovation of the iconic Copan building complex in São Paulo

MC DELIVERED A SUSTAINABLE OVERALL **CONCEPT FOR THE FAÇADE RENOVATION**



Between 2023 and 2025, the Copan Building Association renovated the enormous façade of the Edifício Copan in São Paulo, Brazil – one of the world's largest residential buildings, designed by the renowned Brazilian architect Oscar Niemeyer and known for its curved façade. MC-Bauchemie supported the project from the planning phase through to final implementation, providing comprehensive technical advice and a sustainable concept for the large-scale tiling of the facade.

floors and 1,160 residential units and was inaugurated in 1966. With a living space of over 116,000 m², it is one of the largest residential buildings in the world. Almost 5,000 people live in the building, and the ground floor houses around 70 shops, restaurants and other facilities. The renovation of the facade, consisting of countless small ceramic tiles which had shown considerable signs of wear and tear over the years, therefore required careful and precise planning. The aim was to restore the safety, durability and aesthetic appeal of this iconic residential building's



The 140-metre-high Edifício Copan has 32 MC was selected for the project due to its technical support, comprehensive product range and experience in complex restoration projects. The company supplied all the necessary materials for key stages of the process. The partners involved were the construction company CONCRE-JATO and the façade expert PLANVILE. MC was actively involved in the project from the initial planning stage and its solutions were proven successful in numerous tests, primarily due to their exceptional adhesion and strength.

Challenges in façade repair and logistics

The façade was significantly damaged, with tiles coming loose and posing a safety risk. This is why protective nets had to be installed beforehand. The dense location of the building, coupled with limited access and loading and unloading restrictions, required precise control of the delivery of materials. Furthermore, the work had to be carried out during normal business hours, necessitating close coordination between the construction company, façade consultants and MC to minimise the impact on residents and businesses.

Technical solutions from MC for concrete and tile work

MC-Bauchemie provided a comprehensive solution for facade repair and finishing with new tiles. After removing the old tiles, the concrete surfaces were repaired using Nafufill KMH, a product that

combines corrosion protection and a bonding agent, and the repair mortar Nafufill GM 2. This ensured a smooth, uniform substrate suitable for subsequent coating. Primer D11 was then applied as the primer before the new tiles were laid.

For most areas of the façade, the special mortar M 33 HP can be used both as a tile adhesive and a joint mortar offering an easy-to-apply and durable solution. In specific sections where separate tiling and grouting steps were required, the cementitious grout M 32 was applied. For the movement and separation joints, MC-Flex 490 MS, an flexible, MS-polymer-based sealant, was used to ensure a durable and secure joint finish.

Successful implementation and long-term protection of the facade

Thanks to the technical expertise, a comprehensive product portfolio and precise logistical planning, the Copan façade was successfully renovated. The combination of concrete repair, tiling and joint sealing by MC ensures the longterm safety and aesthetic appeal of the Copan building. The products used impressed with their outstanding performance, especially in terms of adhesion and strength.





In May 2025, the city of Satu Mare inaugurated the Transylvania Bridge - Romania's longest cable-stayed bridge. Spanning 644 m across the Somes River, the structure has become a new city landmark and provides urgently needed traffic relief between the southern and northern districts.

The bridge was built between 2020 and 2025 under the direction of STRABAG România. With two 73 m-high pylons and 56 steel cables arranged in a semi-harp configuration, the 644-m bridge features a main span of 195 m across the

In addition to four traffic lanes, the bridge includes pedestrian walkways with safety railings and a separate cycle path, a clear sign of modern, multimodal mobility. Designed to carry more than 12,000 t of traffic load, the structure represents an investment of around €40 million, underscoring its importance for the city's development.

High demands on durable concrete protection

The project posed complex engineering challenges due to high technical requirements. Particular focus was placed on ensuring longterm durability of exposed concrete surfaces and meeting strict aesthetic standards. At the same time, numerous international partners had to be coordinated - from DYWIDAG in Germany, responsible for cable prestressing, to local construction and design firms.

MC-Color system ensures long-term protection

To ensure the long-lasting durability of the concrete surfaces, STRABAG relied on the proven repair and surface protection systems of MC's Nafufill and MC-Color product ranges. For optimal substrate preparation, a system comprising the bonding agent Nafufill KMH and the repair mortars Nafufill KM 250 and Nafufill KM 110 was applied to even out irregularities and create a homogeneous base for the subsequent coatings.

This was followed by MC-Color Primer to ensure excellent adhesion, and the protective coatings MC-Color Flex pure and MC-Color Flair pure, which provide comprehensive protection against carbonation, effectively preventing reinforcement corrosion. Both systems are highly resistant to UV exposure, frost and de-icing salts, which is a cru-

cial advantage given the strongly fluctuating climate conditions in northern Romania. Moreover. they provide reliable protection against chloride ingress, which is particularly important for heavily trafficked bridge structures.

Thanks to technical support from MC's local field service and close coordination with the selected specialist applicator, the project achieved the highest standards of quality and design. The decision to use MC-Bauchemie systems was based on confidence in product performance, comprehensive service and the company's proven partnership with the project stakeholders.

Sustainable infrastructure through MC expertise and systems

With the inauguration of the Transylvania Bridge on 30 May 2025, Satu Mare gained not only an engineering masterpiece but also a symbol of progress and connection. The bridge shortens travel times, facilitates the movement of goods and people, and enhances the quality of life for residents.

For MC-Bauchemie Romania, this project represents another strong reference in the field of infrastructure construction. Combining highperformance product systems with technical expertise, the result is a structure built to last for decades and a new landmark that will shape the face of the city for generations to come.



In-Company In-Company









When Dr Jana Schütten talks about her work, her passion immediately becomes apparent. She has been working at MC-Bauchemie for almost twenty years – today as Head of Product Management for concrete cosmetics, grouts, concrete release agents, concrete curing and fibres in the Concrete From Bulgaria to Germany – Industry division.

She is responsible for a team of application engineers, technical helpdesk and working students, as well as for developing and managing products in these business areas. "I am thrilled by the trust and freedom I receive from our division and business management to tackle new topics." She uses this freedom to continuously evolve the product range. Under her leadership, MC's concrete release agents were systematically converted to sustainable, modern emulsion technologies – a step that has made MC a pioneer

release agents. In parallel, she developed the field of concrete cosmetics into a complete system portfolio for exposed-concrete cosmetics, retouch and protection.

from university to MC

Born in 1978 in Sofia, Jana grew up in Lyubimets in southern Bulgaria, the "capital of watermelons". She inherited her passion for construction from her grandfather, a master bricklayer, and her father, a civil engineer. After graduating from and natural sciences - where she also learned German – she began studying civil engineering in Sofia. In 1999, she decided to continue her studies in Germany. She originally intended to stay only for a short time, but she fell in love with her husband Markus and with her new home, and ulin the field of environmentally friendly concrete timately never left. Jana, who describes herself as

"a hybrid European with two homelands. Germany and Bulgaria," completed her degree at the University of Duisburg-Essen in 2006 and subsequently began working as a country manager for Southeast Europe at MC. In 2013, she moved into product management, where she has remained ever since. Alongside her work at MC, she completed her doctorate in 2014.

Always in motion: ballet, cycling, gardening and traveling

In addition to concrete, her passion also extends to classical ballet and cycling. Together with her husband Markus and their son Joshua, she has conquered many Alpine mountain stages and even circled Lake Constance. At home in Mülheim, she tends to her garden with the same dedication she brings to her products. And at least twice a year, she travels back to her original homeland of Bulgaria.

MC-BAUCHEMIE WELCOMED TWELVE NEW **APPRENTICES IN AUGUST**

On 1 August 2025, MC officially welcomed twelve new apprentices who have started materials tester), Harem Khorsheed Mustafa their training in commercial and industrial-technical fields at MC's headquarters in Bottrop. In keeping with tradition, the first day was held at MC's training centre on Müllerstraße in Bottrop, where the group photo was tin Hoffmann (chemical production specialalso taken.

The new MC-Bauchemie apprentices – back row, from left to right: Daniel Emrich (chemical production specialist), Luca Schweitzer working at MC).

(industrial clerk), Jacob Köring (building (warehouse clerk), Ömer Demirci (chemical technician), Ben Händel (chemical production specialist), Edin Hasanovic (forwarding agent and logistics services clerk) and Marie-Chrisist). Front row, from left to right: Paul Henke (coatings laboratory technician), Ben-Akram Sakin Mietz (industrial clerk), Patrik Bartel (industrial clerk) and Julia Balster (no longer



PERSONNEL AT A GLANCE

New employees



TADAS LARINAS (37) was appointed Managing Director of MC-Bauchemie Lithuania on 1 October 2025. The business economist has been with MC since 2017.

Further information: https://bit.lv/4nJ741N



KRZYSZTOF MITEK (51) has been Managing Director Sales & Marketing at MC-Bauchemie Poland since 1 August 2025. He has over 20 years of professional experience in construction chemicals.

Further information: https://bit.lv/3XlUuuE



HASSAN SHOUKRY (47) has been Managing Director of the newly founded MC-Bauchemie Egypt since July 2025. The civil engineer has over 20 years of professional experience.

Further information: https://bit.ly/4qX1qoo



VICKY WANG (51) was appointed Managing Director of MC-Bauchemie Taiwan in June 2025. She has over 18 years of professional experience.

Further information: https://bit.lv/4o6UYA1

CONGRATULATIONS ON YOUR COMPANY ANNIVERSARY!



On 4 December 2025, the MC Group continued a long-standing tradition: this year's anniversary celebrants were honoured at a festive dinner at Gasthof Berger in Bottrop-Kirchhellen. Employees from Germany who celebrated their 10th, 25th or 40th company anniversary this year were honoured. Managing Director Nicolaus M. Müller opened the evening with warm words of appreciation. The managing directors and division managers then personally honoured

each employee, celebrating their anniversary and thanking them for their many years of loyalty and special commitment to the company. In addition to gifts, the honourees enjoyed a delicious three-course meal in a convivial atmosphere. As in previous years, celebrations in honour of the jubilarians were also held at other MC locations worldwide. Below is a list of all this year's jubilarians worldwide, sorted alphabetically by country and surname.

Oliver Ehrhardt (DEU) Andreas Kuczera (DEÚ)

Thorsten Bockholt (DEU) Katharina Gläser (DEU) Markus Kahl (DEU) Markus Marek (DEU) Julia Merz (DEÚ) Jens Morgenstern (DEU) Rainer Pfeifer (DEU) Valeri Reimer (DEU) Silke Richterich (DEU)

Peter Schmidt (DEU) Winfried Schneider (DEU) Jörg Steinhauer (DEÙ) Hector Lacruz (ESP) László Bálint (HUN) Adám Bérv-Horváth (HUN) Csilla Szabó (HUN) Joanna Czwojdrak (POL) Wojciech Kucner (POL) Adam Słupski (POL) Evgeniy Sokolov (RUS)

Nathalie Maes (BEL)

Milena Zlateva (BGR) Veronika Fiserová (CZE) Jannik Elspaß (DEU) Sebastian Engel (DEU) Martin Gerlach (DEU) Daniel Haloschan (DEU) Tobias Harzer (DEU) Angelika Hefke (DEU) Sabine Heinen-Jansen (DEU) Patrick Hemming (DEU)

Patrick Jakobus (DEU)

Mladen Mihaylov (BGR)

Margaritka Taleva (BGR)

Mario Nikolov (BGR)

Sebastian Keutel (DEU) Lucas Axel Krüger (DEU) Thomas Langl (DEU) Tilo Lindner (DEU) Karina Lukas (DEU) Valmir-Pessoa Mesquita (DEU) Dominik-David Müller (DEU) Ricardo Jose Ouiroz Rojas (DEU) Andreas Reichstein (DEU) Lisa Schories (DEU) Axel Schulze-Aulepp (DEU) Michael Van der Leij (DEU) Jan Marc Wargenau (DEU) Sabine Weber (DEU)

Hans-Georg Wiedemann (DEU) Peter Woytitzki (DEU) Ramiro Marcilla (ESP) John Allen (IRL) Violeta Jokdiene (LTU) Marcin Banaszak (POL) Mariusz Karwik (POL) Jaroslaw Proc (POL) Maciej Szymański (POL) Marek Walczyński (POL) Jorge Cruz (PRT)

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