



News Release

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Master Builders Solutions[®] presents innovative portfolio of concrete admixtures at BetonTage exhibition

- » **The innovative formwork cleaner MasterFinish CLN 689 ensures spotless fairfaced concrete**
- » **With Master X-Seed, concrete hardens up to ten times faster compared to conventional concrete**
- » **MasterEase for rheology-optimized high-performance concrete**

BASF's Master Builders Solutions experts will be presenting their innovative solutions in the concrete admixtures segment at this year's BetonTage exhibition, held from 19 through 21 February 2019 in Neu-Ulm. At the exhibition booth 54/55, visitors will have the opportunity to learn about products such as MasterEase, MasterFiber, Master X-Seed and MasterFinish and their benefits for use in concrete production.

"Concrete admixtures can make a substantial contribution toward meeting the challenges currently faced by the construction sector: From a commitment to sustainable construction, to tighter time schedules, to an increasing cost pressure", says Herwig Heegewaldt, responsible for the concrete admixtures business of Master Builders Solutions in Germany, Austria and Switzerland. "Using the right concrete admixtures helps concrete producers as well as building owners to reduce expenses and emissions, save time, preserve their machinery and reduce the

manpower required at construction sites.”

BASF’s construction branch provides custom-tailored solutions for all construction-site requirements and, with its global team of researchers, is constantly working on the development of innovative products. One of the results of this was Master Builders Solutions’ 2018 launch of the innovative MasterFinish CLN 689 formwork cleaner, ensuring the production of spotless fairfaced concrete.

“MasterFinish CLN 689 leaves a permanent micro-layer on the surface. On steel formwork, this layer provides high-level rust protection while simultaneously forming an excellent base for the subsequent application of the release agent”, explains Cengizhan Zor, application engineer for form release agents in Germany, Austria and Switzerland at BASF. Combined with release-agent emulsions from Master Builders Solutions, MasterFinish provides major advantages in terms of environmental protection and applicator safety: Based on renewable raw materials, the cleaner is exempt from labeling and virtually odorless. In addition to formwork cleaners, the MasterFinish range also comprises novel release agents and products for machine care and protection. At precast-concrete plants, MasterFinish facilitates easy formwork removal and prevents rust formation on formwork surfaces. Ready-mixed concrete manufacturers benefit from MasterFinish products for the cleaning, care and preservation of concrete vehicles, jobsite machinery and mixing equipment.

Master X-Seed reduces costs and emissions

Master X-Seed, the innovative hardening accelerator from Master Builders Solutions, is another product that delivers numerous benefits to construction sites and precast-concrete plants, reducing costs and CO₂ emissions and ensuring significant time benefits. With the liquid hardening accelerator, concrete hardens up to ten times faster than without treatment – even at wintry temperatures. Based on a patented and unique accelerator technology, Master X-Seed supports concrete hardening by facilitating the natural hydration process of the cement. The admixture does not have any adverse impact on final strength or durability of the concrete. In contrast to other hardening accelerators, Master X-Seed has no negative effect on concrete rheology, even when used in high-flowability, extended-workability concrete mixes. Just recently, Master X-Seed technology was successfully applied for the construction of the Marienturm, an office tower under construction in Frankfurt/Main. It has an altitude of 155 meters and is due to be finished in the first

quarter of 2019. Master X-Seed played a major part in ensuring adherence to the strict time schedule: a mere six days for each of the large structure's 38 floors.

MasterEase for optimized rheology and lower viscosity

Another groundbreaking product employed in the construction of the Marienturm tower, was MasterEase. It helped to achieve the remarkable pumping height of about 155 meters. Showcased at the BetonTage exhibition, the new MasterEase product range optimizes concrete rheology through a remarkable reduction in viscosity by up to 30 percent. This results e.g. in lower pumping pressure and a much more straightforward troweling process – a great benefit, for instance, in precast production or the casting of concrete floor slabs. In each individual construction project, MasterEase offers the potential to save time and costs, increase the utilization of vehicles and machinery, and to reduce the wear and tear of mixers, pumps and pipes.

Another innovation presented at BetonTage is MasterFiber – synthetic fibers that can be used instead of steel as an alternative reinforcement in concrete. Facilitating cost reductions of up to 40 percent, use of the fibers also broadens the scope for possible designs. MasterFiber makes concrete elements more resistant to environmental impact and improves the durability of the building.

For more details on the innovative products of Master Builders Solutions, please visit: www.master-builders-solutions.basf.com

Success stories from the Master Builders Solutions sustainability campaign can be found at: www.sustainability.master-builders-solutions.basf.com/en

About the Construction Chemicals division

BASF's Construction Chemicals division offers advanced chemical solutions under the global umbrella brand Master Builders Solutions for the construction, maintenance, repair and renovation of structures. The brand is built on more than 100 years of experience in the construction industry. Our comprehensive portfolio encompasses concrete admixtures, cement additives, chemical solutions for underground construction, waterproofing systems, sealants, concrete repair & protection systems, performance grouts, performance flooring systems, tile-fixing systems, expansion joints & control systems and wood protection solutions.

The Construction Chemicals division's approximately 6,500 employees form a global community of building experts. To solve our customers' specific construction challenges from conception through

to completion of a project, we draw on our specialist know-how, regional expertise and the experience gained in countless constructions projects worldwide. We leverage global BASF technologies and our in-depth knowledge of local building needs to develop innovations that help make our customers more successful and drive sustainable construction.

The division operates production sites and sales offices in more than 60 countries and achieved sales of about €2.4 billion in 2017.

About BASF

At BASF, we create chemistry for a sustainable future. We combine economic success with environmental protection and social responsibility. The more than 115,000 employees in the BASF Group work on contributing to the success of our customers in nearly all sectors and almost every country in the world. Our portfolio is organized into six segments: Chemicals, Materials, Industrial Solutions, Surface Technologies, Nutrition & Care and Agricultural Solutions. BASF generated sales of more than €60 billion in 2017. BASF shares are traded on the stock exchanges in Frankfurt (BAS), London (BFA) and Zurich (BAS). Further information at www.basf.com.