



News Release

June 28, 2018

BASF showcases sustainable solutions that make underground construction safer and more efficient at Concrete Techno Plaza 2018

- **MasterRoc® SA-series, high-performance, alkali-free, liquid set accelerator helps industry meet stringent safety and environmental regulations**
- **MasterRoc TSG and BSG series ensures reliable and efficient tunnel boring machines (TBM)**
- **Enhances tunnelling operation efficiency and reduces material wastage**

Tokyo, Japan – June 28, 2018 – At Concrete Techno Plaza 2018, BASF will present a broad portfolio of innovative construction solutions addressing safety concerns in the tunneling industry, while increasing operational efficiency of underground construction, from July 4 – 6, 2018, at Kobe Fashion Mart in Japan.

Takahiro Ikeda, Head of Construction Chemicals of BASF Japan Ltd. said, “As a world leading solution provider in the underground construction segment, BASF’s technology and product performance have been proved and recognized in many international projects. Together with our expertise on concrete mix design, concrete rheology, pumpability and strength development, we offer the most comprehensive package to fulfill the long-term needs of tunneling projects in Japan.”

MasterRoc SA alkali-free accelerators can speed up the setting and hardening of the sprayed concrete. They provide high early strength gain and long-term strength development, as well as enhanced durability. Thanks to its liquid form, it can help reduce dust and rebound levels during spraying operations. It optimizes material

consumption while improving working conditions on-site, compared to traditional powder accelerators. The environment and health risks during the handling and storing of powder materials will also be significantly reduced.

MasterRoc SA series complies with all relevant global regulations and meets new and even stricter environment and health regulations for Japanese industry.

BASF introduces new tail sealant, MasterRoc TSG, and main bearing sealing grease, MasterRoc BSG, to ensure reliable and efficient tunnel boring machines (TBM). BASF's new tail sealant can effectively seal the gap between the shield and concrete segments to prevent the ingress of water, grouts and soil, while the bearing sealing grease can protect and lubricate the main bearing, the most costly part of the TBM.

“Our company's strong research and development capability is a base for ongoing innovations to support the industry's needs. BASF builds on that legacy with expertise, commitment and a customer-centered approach. We will continue to bring in new innovation, especially for the underground construction industry, and stay committed to serving the Japanese market,” Ikeda confirmed.

In addition to the solutions for the underground construction industry, new concrete admixtures and the high-performance grout for the wind power station will also be exhibited.

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 in Japan

BASF has been a committed partner to Japan since 1888. Activities cover four business segments including Chemicals, Performance Products, Functional Materials & Solutions and Agricultural Solutions. BASF has 24 production sites, including 16 admixture plants of the Construction Chemicals division. In addition, BASF maintains a strong research and development presence in Japan with its facilities in Amagasaki, Yokohama, Chigasaki, and Naruto. As of the end of 2017, BASF employed 1,087 employees in Japan, and achieved sales of about €1.7 billion to customers in Japan. For further information, please visit: www.basf.com/jp.

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 five segments: Chemicals, Performance Products, Functional Materials & Solutions, Agricultural Solutions and Oil & Gas. BASF generated sales of €64.5 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.