

Press Release



BASF's Signature on Osman Gazi Bridge

- **BASF developed specialized solutions to secure the abutments for the steel suspension bridge**
- **BASF ensures a durable and long service life for the bridge built in an active seismic zone**

Istanbul, Turkey, September 21, 2016 – Constructed in the scope of Gebze-İzmir Highway Project, the Osman Gazi Bridge was opened on July 1, 2016. Innovative solutions based on BASF Construction Chemicals division's global knowledge and experience were used in the construction of the bridge, which has the fourth longest central span in the world with 1,550 meters. Grout, structural repair mortar, adhesives, and injections mortar were provided to the

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Osman Gazi Bridge, spanning a total length of 2,682 meters.

Dynamic loading and harsh conditions on the bridge

Built in an active seismic zone, Turkey's most active fault line passes directly through the abutments of the Osman Gazi Bridge. The abutments that rise from the water are exposed to chloride attack that causes corrosion. With solutions specially developed for the Osman Gazi Bridge by BASF's Construction Chemical division, BASF MasterProtect series corrosion inhibitors protect the bridge's reinforced concrete, while MasterFlow grout solutions secure the bridge's abutments. To anchor the bridge abutments, caisson structures were manufactured on land, then floated over to the wet docks with the help of trailers. MasterFlow grout solutions were also used in the production of the load-bearing steel columns. In cooperation with BASF, special tests were performed resulting in the selection of the most effective type of grout as well as the suitable application method for the grout used in building the bridge.

These BASF products were used in the construction of the Osman Gazi Bridge connecting the north and south shores of İzmit Bay and reducing the travelling time between two mega cities, Istanbul and İzmir, from six and a half hours to three and a half hours. In addition to BASF's MasterFlow grout solution products, the MasterEmaco S series structural repair mortars, MasterEmaco T series repair mortars offering high durability and quick setting, MasterBrace ADH adhesives, MasterInject injection mortars, and MasterProtect series corrosion inhibitors offer unique solutions for the Osman Gazi Bridge, providing a durable and long service life. All solutions and products are part of BASF's comprehensive Master Builders Solutions portfolio for the construction industry.

About Master Builders Solutions from BASF

Master Builders Solutions is BASF's brand of advanced chemical solutions for construction. The Master Builders Solutions brand is built on the experience gained from more than 100 years in the construction industry. The comprehensive portfolio under the Master Builders Solutions brand encompasses lasting solutions for new construction, maintenance, repair and renovation of structures: Concrete

admixtures, cement additives, chemical solutions for underground construction, waterproofing solutions, sealants, repair & protection solutions, performance grouts, performance flooring solutions. The Master Builders Solutions brand is backed by a global community of BASF construction experts. To solve our customers' specific construction challenges from conception through to completion a project, we combine our know-how across areas of expertise and regions and draw on the experience gained in countless construction projects worldwide. We leverage global BASF technologies, as well as our in-depth knowledge of local building needs, to develop innovations that help make our customers more successful and drive sustainable construction. Further information at www.master-builders-solutions.basf.com

About the Construction Chemicals division

BASF's Construction Chemicals division offers advanced chemicals solutions for new construction, maintenance, repair and renovation of structures: 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 control systems and wood protection solutions.

The Construction Chemicals division's about 5,500 employees form a global community of construction experts. To solve our customers' specific construction challenges from conception through to completion of a project, we combine our know-how across areas of expertise and regions and draw on the experience gained in countless construction projects worldwide. We leverage global BASF technologies, as well as 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 centers in more than 50 countries and achieved sales of about €2.3 billion in 2015.

About BASF

At BASF, we create chemistry for a sustainable future. We combine economic success with environmental protection and social responsibility. The approximately 112,000 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 more than €70 billion in 2015. BASF shares are traded on the stock exchanges in Frankfurt (BAS), London (BFA) and Zurich (AN).

Further information at www.basf.com.