Saint Petersburg (Russian Federation) A118 RING ROAD

HIGH-QUALITY MORTARS FOR CONCRETE REPAIR FOR A KEY INFRASTUCTURE IN THE **RUSSIAN ROAD SYSTEM**

The All8 Ring Road around the city of St. Petersburg is a public highway serving the city and the Leningrad region. It is about 117 km long and connects all the main highways going from the center of St. Petersburg in the direction of Moscow, Murmansk, Helsinki, Kiev and Tallinn. Its construction began in 1998 and was built in several stages, with each newly introduced section diverting traffic from the city, which was suffering from traffic congestion.

One of the most problematic sections of the Ring Road was the construction of a cable-stayed bridge over the River Neva, the Bolshoy Obukhovsky Bridge. 16 design companies, including Danish and Finnish ones, took part in the design work. The construction was divided into two stages

and completed in October 2007, with the construction of the right half of the bridge with 4 traffic lanes and overpasses on both banks. This new cable-stayed bridge across the River Neva is now one of the symbols of St. Petersburg.

Quality products for maintenance Mapei products were used for rou-

tine maintenance work at the All8 Ring Road during an intervention that took place between 2013 and 2020. Concrete repair mortars such as MAPEGROUT THIXOTROPIC and MAPEGROUT 430 were chosen for repairing and restoring the supports and beams of the main structures. Mixed with water, MAPEGROUT THIXOTROPIC becomes an easily workable mortar with high thixotro-

The Bolshoy Obukhovsky Bridge is a cable-stayed bridge over the River Neva. It is part of the A118 Ring Road, a public highway serving the city of St. Petersburg and the Leningrad region. Mapei products for concrete repair and chemical anchoring were used for its





maintenance in 2013-2020.

Problems and solutions

The Russian authorities for highways and roads required high quality products for maintaining and repairing several elements of the bridge. Therefore, several solutions from the Mapei range for concrete repair were used: MAPEGROUT THIXOTROPIC and MAPEGROUT 430 high performance mortars, the finishing product MAPEFINISH and the sealants MAPERIX VE SF and MAPERIX EP 385/585 for chemical anchors.



TECHNICAL DATA A118 Ring Road, Saint

Petersburg (Russian

repaired surfaces for final leveling.

When mixed with water, the product

forms a soft paste that is easy to apply

even on vertical surfaces in thicknes-

ses up to 2 to 3 mm in a single coat.

Because of its high synthetic resin

Federation) Period of construction: 1997-2007

Period of renovation: 2013-Period of the Mapei

intervention: 2013-2020 Client: North-West Federal Highways Department, Russian Federation Road Authority

diary of the Group.

Besides, MAPEFIX VE SF, styrene-free

vinylester adhesive, and MAPEFIX

EP 385/585, pure epoxy, resin-based

adhesives, were used for chemically

anchoring metal bars in holes.

Main contractor: LLC EuroTransStroy Mapei distributor: LLC

Mapei coordinator: Ivan Vikhristenko, AO Mapei (Russia)

MAPEI PRODUCTS

Concrete repair: Mapegrout Thixotropic, Mapegrout 430, Monofinish Repairing areas around the joints: ARB-10F* Chemical anchoring: Mapefix VE SF, Mapefix EP 385, Mapefix EP 585

*This product is manufactured and distributed on the Russian market by AO Mapei (Russia)

For further information on products visit <u>mapei.com</u> and <u>mapei.ru</u>

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