

# Belgrade (Serbia) NEW PAVING FOR KARADORĐEVA STREET



RENOVATION OF THIS ROAD IN THE CENTRE OF OLD BELGRADE INCLUDED THE INSTALLATION OF STONE PAVING IN THE ZONE TO BE USED BY THE CITY TRAM NETWORK

## IN THE SPOTLIGHT

### MAPESTONE TFB 60

Pre-blended mortar for installation screeds for architectural stone flooring (exposure classes XF4 and XS3). It is a complementary product of MAPESTONE system, which allows to realize architectural stone paving with high durability even in environments subject to rain, to freeze-thaw cycles in the presence of de-icing salts and seawater.





Named after Karađorđe, leader of the first Serbian uprising against the Ottoman Empire, Karađorđeva Street runs through the neighbourhood of Savamala and is one of the busiest roads in the old part of Belgrade. Over the course of the last few years, the area has become one of the main tourist attractions in the city, especially for young tourists, thanks to the opening of new clubs and bars and the presentation of shows and exhibitions held in the open air. Being so close to the port and the customs office also plays a part in it being such an important hub in the daily life of Belgrade. The road also has one of the major tram lines of the city running along it.

In 2017, the local council decided to refurbish Karađorđeva Street by widening the pavements, planting new trees, promoting restoration work on the facades of nearby historic buildings and constructing a new terminus for tourist coaches. The project also included moving the sleepers for the tram-lines and relocating them along the new stone paving (628 metres in length).

The local Mapei Technical Services Department proposed using the MAPESTONE system to the contractor and local council. The system makes it possible to create stone paving in urban surroundings using technologically innovative products at a competitive cost. Mapei recommended using MAPESTONE TFB 60 pre-blended mortar to install the stone. Installation screeds made from MAPESTONE TFB 60 guarantees the durability of architectural stone paving in exposure class XF4 with high compressive strength and high resistance to freeze-thaw cycles. The stone joints were then grouted with MAPESTONE PFS 2 pre-mixed mortar for architectural

#### IN THE FACING PAGE.

A view of Karađorđeva Street.

**1, 2.** Installation of the stone paving on the screed made with MAPESTONE TFB 60.

**3.** The joints in the paving were grouted with MAPESTONE PFS 2.

stone paving, again in exposure class XF4, which has a high level of compressive strength and is also resistant de-icing salts and freeze-thaw cycles. Paving made using this product cycle also absorbs stresses and loads caused by the passage of vehicles, including heavy-goods vehicles. MAPEFLEX PU 65 sealant was then used to seal the joints between the stone and tram lines.

#### TECHNICAL DATA

**Karađorđeva Street,**  
Belgrade (Serbia)

**Year of the intervention:**  
2019

**Intervention by Mapei:**  
supplying products for installing and grouting stone to renovate the paving in the city centre

**Client:** City of Belgrade - Secretariat for Utilities and Housing Service, and Belgrade Land Development Public Agency

**Consortium/Main contractor:** Energoprojekt – Niskogradnja a.d.

**Contractors:** Bauwesens, d.o.o. (Serbia), Clas Rail S.A.S

(France)

**Installation company:**  
Bauwesens, d.o.o.

**Mapei coordinators:** Andrija Vidanović, Đorđe Jovanović, Mapei SRB d.o.o. Beograd (Serbia)

**Photos:** Nemanja Janić, Mapei SRB d.o.o. Beograd

#### MAPEI PRODUCTS

Installing and grouting stone paving: Mapestone TFB 60, Mapestone PFS 2  
Sealing joints: Mapeflex PU 65

For further information on products visit [mapei.com](http://mapei.com) and [mapei.rs](http://mapei.rs)