Q8, Stuttgart-Bad Cannstatt

Data and facts

Company	PORR Spezialtiefbau GmbH
Type	Sealing slabs, Foundations
Runtime	02.2021 - 06.2021
Principal	Wolff & Müller Hoch- Industriebau GmbH

Project report online

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PORR scores points for sustainability at NeckarPark

pile lengths were strictly limited. Above the water-bearing layers there is a protective layer of gypsum keuper. The challenge lay in transferring the loads into the ground with the shortest possible piles. Franki Piles NG® have a wider base, making it possible to use shorter piles. The 351 piles transferred the same load as other pile systems without impacting the gypsum keuper layer.

Soft gel floor slab with an optimised carbon footprint

Several sheet pile boxes located deep in the construction pit were to be protected against groundwater rising from below with a sealing slab. Instead of the jet-grouted slab that had been originally planned, the specialist civil engineering experts from Stuttgart recommended a soft gel injection slab and were commissioned to implement it. This method has an excellent carbon footprint because it requires considerably less cement, thus also saving on transport. Another advantage is that it does not produce return-flow slurry, which is costly to dispose of.

Impressions
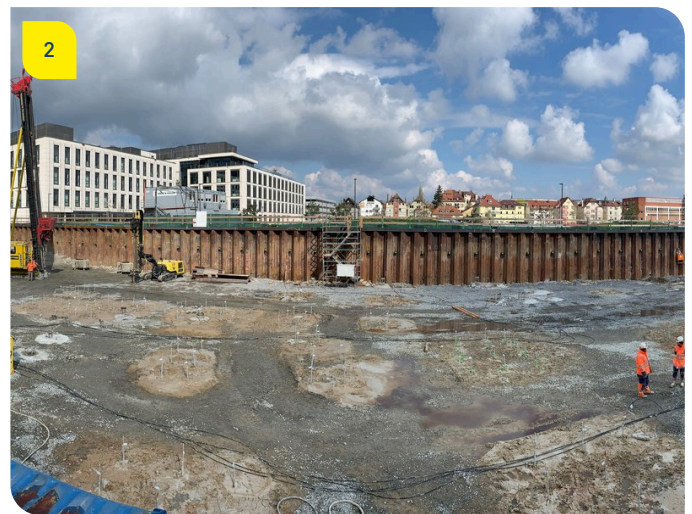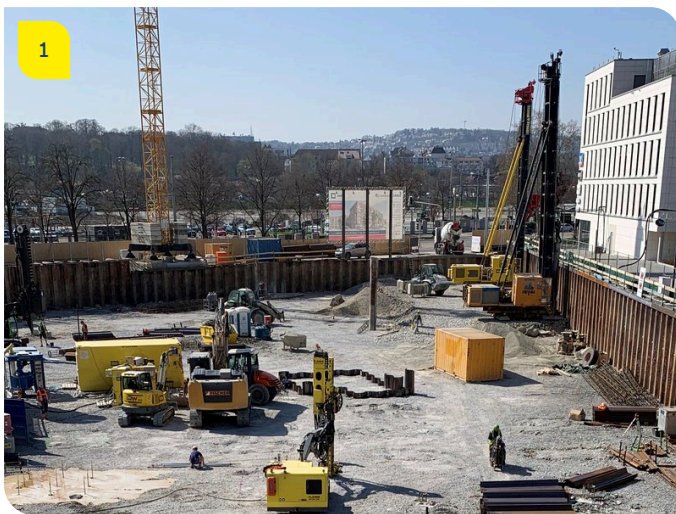
Image notes

1 Q8, Stuttgart-Bad Cannstatt

As part of the redevelopment of the NeckarPark district in Stuttgart, the Stuttgart branch implemented an environmentally friendly pile foundation for the Q8 building, sealed with a soft gel injection floor slab.

2 Q8, Stuttgart-Bad Cannstatt

The specialist foundation engineering experts from Stuttgart recommended a soft-gel injection slab to the customer. Since the process has reduced cement consumption and fewer transports, it has an excellent CO_2 footprint.

Do you have questions about the project or would you like to learn more? Feel free to contact us for further information.

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