



Upbeat, Berlin

Data and facts

Company	PORR Spezialtiefbau GmbH
Type	Turnkey construction pits, Sealing slabs, Foundations
Runtime	11.2021 - 12.2022
Principal	omniCon Gesellschaft für innovatives Bauen GmbH

[Project report online](#)

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Environmentally friendly soft gel injection slab for construction pit at Upbeat project in Berlin

PORR scores points with environmentally friendly processes

The project developer CA Immo worked with the architects and specialist planners to optimise the indoor ambience, energy requirements and sustainability of the building down to the smallest detail. PORR Spezialtiefbau is making a significant contribution to lowering carbon emissions by producing an environmentally friendly soft gel slab instead of a jet-grouted slab as originally planned. This procedure has general type approval from DIBt and has an excellent carbon footprint due to considerably reduced use of cement and transport requirements. In addition, it produces no return slurry. Perimeter insulation below the floor slab prevents thermal bridges and also has a positive impact on the energy balance.

The contract for the construction pit enclosure comprises the production of a total of 4,800m² of diaphragm wall with widths of 60cm and 120cm as well as 5,800m² of organic soft gel base. A total of 2,700m of temporary strand anchors will secure the diaphragm walls against deformation. In addition, 54 shaft-grouted bored piles will be installed to a depth of 29m to transfer the high loads from the buildings into the ground.

Impressions

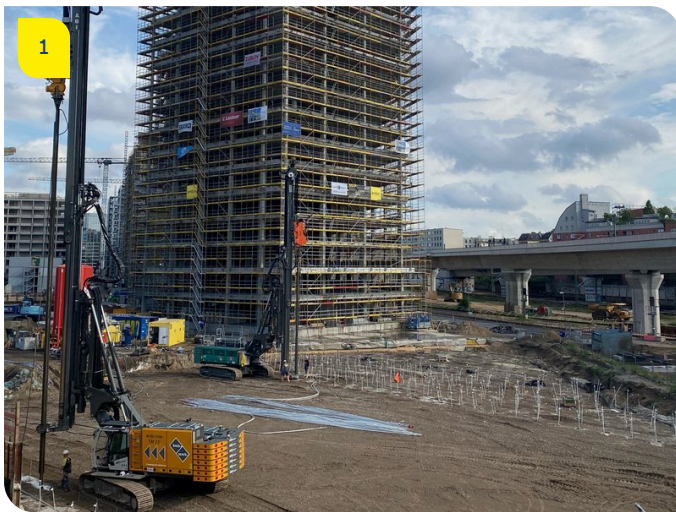


Image notes

1

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The contract for the excavation pit enclosure comprises the construction of a total of 4,800 m² of diaphragm wall with widths of 60 and 120 cm as well as 5,800 m² of bio-soft gel base.

2

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PORR Spezialtiefbau is making a significant contribution to reducing CO₂ emissions by producing an environmentally friendly soft-gel base instead of the originally planned DSV base

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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