



Frankfurt

Rehabilitation of the Airfields

Data and facts

Company PORR Verkehrswegbau GmbH

Type Airport construction

Runtime 04.2020 - 05.2020

Principal FRAPORT AG

[Project report online](#)

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Perfectly synchronised workflows

The runway rehabilitation contract covers an area of 250,000m², which translates into approximately 60,000t of asphalt laid in two layers. Originally, the contract was to be completed in four 32-hour shifts, one 106-hour shift and 21 night shifts. Due to the current situation caused by the coronavirus pandemic and the resulting flight cancellations, an agreement was reached with the client that the work would be carried out in day shifts over three weeks.

In the first week, before Easter, 55,000t of asphalt were milled, loaded and deposited at a temporary storage facility inside the airport grounds over four days. Eight milling machines and 30 HGVs were used in the process. In the second week, 27,500t of asphalt were laid as a binder course in four 10-hour shifts. Approximately the same amount of temporarily stored material was transported back to the asphalt mixing plants for subsequent recycling.

One particular challenge was ensuring a continuous flow of asphalt mix of up to 1,000t/h at the paving site. To ensure compliance with all the safety requirements specified by the client, the material was transferred from HGVs outside the site to HGVs inside the site at the airport perimeter fence by means of feeders and ramps. The asphalt surface course was laid during the 17th week of the calendar year. Four feeders, four pavers and 22 rollers were used to lay approximately 25,000 tonnes of asphalt in a seamless pass over a width of approximately 30m.

Challenging logistics

Four mixing plants were used to produce the asphalt in order to achieve the high paving rates. On peak days, up to 100 HGVs were needed to transport the asphalt continuously to the construction site. Planning the asphalt transfer logistics at the perimeter fence was particularly challenging. The construction logistics tool BPO Asphalt was used for the planning, optimisation and simulation of the construction processes and the documentation.

Impressions



Image notes

1

Runway Rehabilitation, Frankfurt

As the work was carried out in the airside area of the airport, the training prescribed by Fraport had to be completed in advance.

2

Runway Rehabilitation, Frankfurt

The team demonstrated their ability to work shoulder to shoulder in the construction project.

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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