



HENGELHOEF CONCRETE JOINTS

Sinus Slide® Joints

End User: **Brussels Airport**

Solution: **Slide® Joint Technology**



Before



After



Brussels Airport is an international airport located 12 km northeast of Brussels, the capital of Belgium. In 2018, more than 25 million passengers did choose Brussels Airport, and more than 230,000 flights took off and landed. This makes it the 24th busiest airport in Europe. It is home to around 260 companies, together directly employing 20,000 people and serves as the home base for Brussels Airlines and TUI fly Belgium. The company owning and operating the airport, is known as the Brussels Airport Company N.V./S.A.

Case study: **Joint Repair**

Product: **Sinus Slide® Joint**

Year: **2019**

Address: **Brussels Zaventem, Belgium**

In the main baggage handling area, the Brussels Airport Company is suffering from many deteriorated floor joints, that create a lot of noise and vibration when trafficked by vehicles and baggage trailers.

After several trials with different repair materials and concepts, HCJ was consulted by the head of the Technical Department from Brussels Airport, in order to provide a durable and sustainable solution to the existing problems.

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Customer Goals

Project Design

The main problem has been deterioration around the main movement joints in concrete overlays for the baggage handling department. Different issues have been observed and had to be taken into account for an appropriate solution:

- Fire resistance need to be maintained according to EN 13501-1
- Re-modeling the surface with durable materials
- Ensuring the levelness either side of the joints
- Allow for horizontal movements in both directions.

The solution for the customer

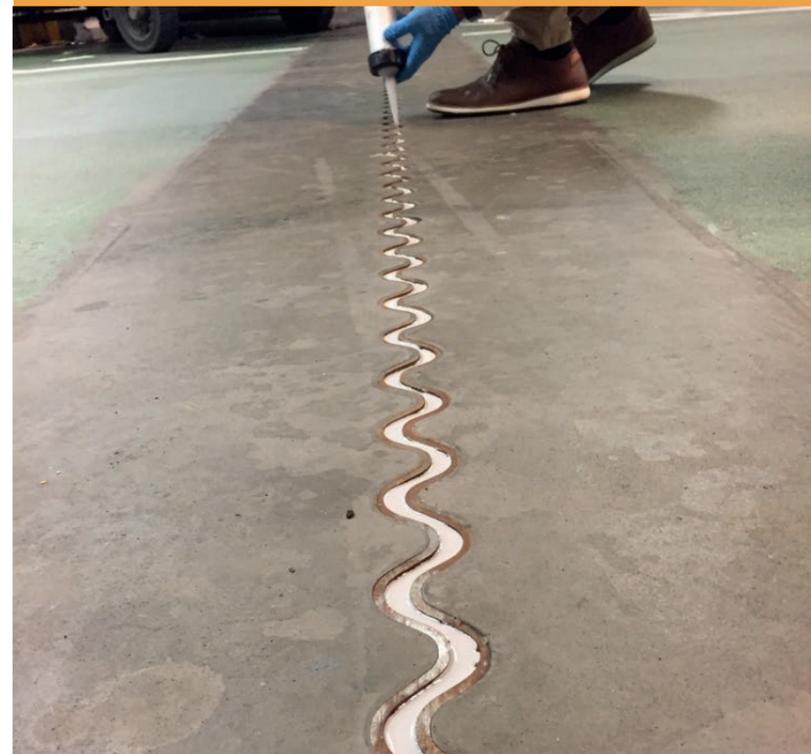
In collaboration with the Technical Department of Brussels Airport, a specialized concrete repair company, a Chemical company providing some special self-leveling sealant and HCJ, we designed a customized solution to solve all the existing problem. It includes the necessary fire protection, an adapted reinforced and shrinkage reduced mortar and our Sinus Slide® Joint.

The value for the customer

In order to check if the proposed solution would work, back in August 2017 a first trial was conducted on a single joint location. This one has since been followed up and surveyed closely.

The conclusion one year later: **THE SINUS SLIDE® JOINT works perfectly.**

In 2019, the program to repair all damaged joints in the baggage handling department has been launched.



Guy Huenaerts

Deputy manager at Brussels Airport Company

“The Sinus Slide® Joint not only works perfectly and offers but also gives all employees a higher level of comfort in the workplace. It also contributes to a safer working environment and less wear to vehicles and buildings.”

