

Sika at Work



**KPM
Elastic Joint Sealing
and
Wood Floor Bonding**



Elastic Joint Sealing and Wood Floor Bonding



The Sika Application Field: «Sealing and Elastic Bonding»

In nearly all major building projects there are floor joints as well as façade joints. Depending on the type of project a floor will subsequently also be covered with coatings or carpets and sometimes with parquet wood floors. Particularly in high rise residential buildings, hotels, restaurants and shopping areas, these parquet wooden floors are becoming more and more popular. Here as examples are two recent projects where Sika has supplied both the façade joint sealants and also the parquet wood floor bonding adhesives.

上海华府天地 Rich Gate Shanghai

Rich Gate is a large high rise residential development in Shanghai with four prestige towers. This complex contains very exclusive apartments, costing about 2 million Euro each.

In this very well finished and attractive building the joints in the natural stone façade were sealed with **Sikasil®-605**. The quantity used was approximately 20'000 saucages, a huge quantity when you consider that in the façade the joint width is approx 10 mm, therefore almost 150'000 linear metres of joint have been sealed.

Sika also undertook their first major parquet wood floor bonding job in China with approximately 8'500 m² of parquet wood floors in the construction of these luxury apartments. Conventional fixings with nails for this type of wooden floors with under floor heating installed, is quite complicated and difficult to achieve safely. Therefore the decision was made to install the floor in an easier and faster way with **SikaBond®**. Because of the relatively low sub-floor quality, the contractor also preferred the **SikaBond®** system with its elastic and stress reducing properties. The adhesive used was **SikaBond®-T55**.

The adhesive consumption was approximately 8 tons of the **SikaBond®-T55** for the 8500 m² of parquet wood floor bonding.





Allianz Arena Munich - Germany

The Allianz Arena Stadium in Munich is a typical example of modern football stadium design, with several other stadium projects in Germany also being built in the same way. For Sika this method of construction is also very interesting because the terraced seating areas are constructed using large and high quality precast concrete units, frequently using Sika admixtures. Between these precast units the joints are waterproofed and sealed with **Sikaflex®** sealants. Due to the high thermal movements and flexing under full capacity loads, plus the high mechanical stress from pedestrian traffic and cleaning machines, the ideal sealant for this purpose is **Sikaflex® PRO-3 WF**.

At the Allianz Arena approximately 50'000 linear metres of these joints were sealed with Sikaflex® PRO-3 WF.

Wood Floor Bonding

In addition to the joint sealing, Sika materials were also used as the adhesives to bond the parquet wood floors in the main restaurant areas.

Floor Area: 700 m²
Adhesive: **SikaBond® T-52 FC**
Laying system: Full surface bonding – applied with the **SikaBond® Dispenser-5400**
Substrate: Anhydrite screed
Wood floor: 3 ply engineered boards

Advantages with Sika Wood Floor Bonding

Large open plan areas achieved without additional joints due to the elastic adhesive performance of **SikaBond®**.





China



China



Germany



Germany

Summary

These are two examples where Sika has supplied very interesting projects with the elastic façade joint sealing materials and also then with elastic adhesive materials for bonding the parquet wood floors. These projects were both a coincidence, not a success from coordinated sales and marketing actions. **But this is now a real Sika opportunity** for the future. With elastic joint sealing Sika is usually involved in the project at an early stage, which means that with many developments including hotels, restaurants, shopping centres and apartments etc, there is now a real opportunity that all or some of the floors will be specified in wood – always be sure to investigate what is to be used for the final floor coverings.

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