

Mersch School Campus

Installation of wooden floors in Luxembourg



ON THIS PAGE. The new Mersch school campus in Luxembourg.
IN THE FOLLOWING PAGE. Some of the phases of making the screed and installing the wooden floors with LIGNOBOND.





The Mersch school campus, in central Luxembourg, is one of the first projects executed thanks to a partnership between public bodies and private enterprise.

Two buildings connected by a large glass entrance house hold the Neie High School and the Technical Institute for Educational and Social Studies. Over an area of more than 6 hectares, the 1,600 students have facilities such as a music hall, sports and technical facilities, an amphitheatre and a canteen. It is all housed in a construction with low energy consumption which integrates harmoniously into the surrounding landscape.

The architectural style of the two institutes is the same, but the materials and colours differ so that they have their own individual look. Opposite the institutes is a square with lovely gardens and vegetation where the students and teaching staff can relax.

Construction work on the campus started in 2009, and after two years Mapei Benelux, the local subsidiary of the Group, was contacted to supply the company's products to install around 14,000 m² of wooden floors. LIGNOBOND two-component epoxy-polyurethane adhesive was recommended to install the flooring, which more than satisfied the requirements of the client.

The substrate's surface was prepared by sandblasting the concrete to remove any detached areas and any areas becoming detached and then a cementitious screed

is made using TOPCEM, a special hydraulic binder for normal setting screeds. Because there were less than 4 cm available to create the screed (only 1 cm in the thinnest part), a bonded screed was made on the substrate by initially applying a bonding slurry made from PLANICRETE (synthetic-rubber latex), water and TOPCEM. After four days ECO PRIM PU 1K primer was applied, which is used to consolidate and waterproof cementitious screeds.

The wooden floors were then able to be installed with LIGNOBOND.

Technical Data

School campus, Mersch (Luxembourg)

Period of Construction: 2009-2010

Year of the Intervention: 2011

Intervention by Mapei: supplying products for the preparation of the substrate and the installation of wooden floors

Client: Grand Duchy of Luxembourg

Designer: ARCO Architecture Company

Contractor: AM-GTK

Works Director: W. De Toffol INCA Ingénieurs Conseils Associés S.à.r.l.

Laying Company: La Parqueterie de Steinfeld

Mapei Distributor: Vetedy

Mapei Co-ordinators: Ivan Mariotti, Gilbert Geerinckx, Willy Vijgen, Frédéric Bertaggia and Thierry Decoster, Mapei Benelux

Mapei Products

Preparing the substrates: Topcem,

Planicrete, Eco Prim Pu 1k

Laying wooden floorings:

Lignobond

For further information see the websites www.mapei.com and www.mapei.be

IN THE SPOTLIGHT LIGNOBOND

It is a two-component solvent-free epoxy-polyurethane adhesive for laying all types and shapes of wooden floors. LIGNOBOND is used for bonding wooden floors on cementitious screeds, anhydrite screeds, screeds made using MAPECEM, TOPCEM and similar products, old wooden, ceramic, marble, terrazzo floors and metal sheets. It is also suitable for heated substrates. Once hardened, approximately 24 hours after application at normal temperatures, LIGNOBOND forms a tough film with high bond strength on any type of substrate.

It can contribute up to **3 points** to obtain the **LEED** certification.

