

Project:

GlaxoSmithKline
Waterproofing and Protection
of a Neutralization Basin

Location:

Wavre (Belgium)

Project completed:

2013

Owner/s:

GlaxoSmithKline

Applicator/Contractor:

Rixhon Sprl

Market sector:

Industrial Water Management

Products used & amounts:

MasterSeal M 808:

approx. 1.6 tons

MasterSeal P 385:

approx. 1.0 tons

GlaxoSmithKline

Waterproofing and Protection of a Neutralization Basin



Our reference in Wavre (Belgium): Waterproofing and Protection of a Neutralization Basin

The background

GlaxoSmithKline plc (GSK) is a British multinational pharmaceutical, biologics, vaccines and consumer healthcare company headquartered in London.

The Belgian branch of the company operates in the development, research, production and sales of products. It is divided into four sites and employs more than 8,000 people.

The challenge

For the new production site in Wavre, a waterproofing system with a high chemical resistance was necessary to prevent leakages from the neutralization basin. At the same time, the concrete employed to build the structure should be protected. It was crucial that the system was compatible with the concrete substrates that, eventually, could contain a high residual humidity.

The solution should be applicable on concrete substrates, but also on metallic elements inserted in the basin, with good adhesion on both types of substrate offering waterproofing safety even in complex set-ups.

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Our solution

The solution selected included the application of a liquid membrane using MasterSeal M 808 on a surface previously primed with MasterSeal P 385. Our MasterSeal M 808 is a two-component polyurethane with high chemical resistance. The membrane shows a high elasticity and crack bridging capacity that are critical to compensate substrate movement. Otherwise, this movement could cause damages to the membrane and thus leakages and penetrations of the chemicals to the substrate with the potential risk of chemical damage to the substrate.

Additionally, MasterSeal M 808 has a high mechanical resistance (both abrasion and impact) that allows cleaning operations and preserves the membrane integrity. On metallic substrates, MasterSeal M 808 was applied without primer. The use of MasterSeal P 385 as a primer additionally improves the adhesion of the membrane, thus solving the need of the application on a potentially humid concrete substrate.

The customer's benefit

- Availability of a complete solution:
- The safety that the system offers being fully bonded to all types of substrate required, even in case of residual humidity.
- The high chemical resistance and the crack bridging properties ensure a long-term stability of the membrane and prevent water and chemicals to penetrate into the concrete substrate.
- The solution for the application on a recently built substrate that could contain residual humidity with the use of a specific primer.

Projects facts at a glance

- Approx. 2,000 m² of waterproofed area.
- Total application of 1.6 t of membrane MasterSeal M 808.

Master Builders Solutions from BASF

The Master Builders Solutions brand expresses BASF's expertise in providing customized chemical solutions for new construction, maintenance, repair and restoration of structures.

Master Builders Solutions is built on the experience gained from more than a century in the construction industry. At the core of the Master Builders Solutions brand is the combined know-how and experience of a global community of BASF construction experts, who connect with you to solve all of your construction challenges.

Further information is available at:
www.master-builders-solutions.co.uk