

Radisson SAS Hotel

Gdansk, Poland



Site photograph showing exposed walls of existing buildings in the old town

The Site

The Radisson SAS Hotel, Gdansk, is situated in Dlugi Targ Street, in the heart of the historic Old Town. The hotel will be ideally located to the historical sites and close to the Motlawa River.

The hotel is due for completion in February 2008, and will consist of 137 rooms, including 7 suites and a Presidential Suite, as well as underground parking facilities.

'Conservation officers requested fragments of old walls be conserved and combined within the construction of the new building.'

The Challenge

As the hotel is situated in an old town, a major challenge was building in a heavily populated location, which caused difficulties due to the limited space for construction. Additionally, conservation officers requested that fragments of old walls be conserved and thus exposed in parts of the building. Therefore contractors had the challenge of building against these existing walls.

The design specified different grades of basement so the waterproofing beneath the slabs, needed to prevent water travelling between the membrane and structural concrete from one area to the next.

Difficult site conditions due to seawater underground resulted in muddy working conditions. Due to the damp surfaces, a membrane resistant to saline and suitable for application in such circumstances was required. A suitable waterproofing system for roof decks was also specified.

The Solution

Preprufe® 300R waterproofing membrane was applied beneath the slabs due to its unique ability to adhere to poured concrete, preventing water migration between the structure and membrane. Its unique adhesive technology ensures that the risk of leaks in the structure is substantially reduced. In addition, it provides superior damage resistance, which was important due to the damp and muddy site conditions and is unaffected by salt water.

Bituthene® 8000 and Bituthene® Liquid Membrane were applied on the roof decks; Bituthene 8000 specifically used on basement structures provided a robust solution

to the waterproofing problem due to its ability to protect against the effects of water, damp and gas penetration. Bituthene LM provided waterproofing continuity at angles and penetrations. Bitushield™, a preformed polyester reinforced protection membrane was applied over the Bituthene for added protection to the membrane.

'Preprufe's unique adhesive ability and superior damage resistance ensured the risk of leaks were substantially reduced - this being vitally important due to the presence of sea water.'



Muddy site conditions due to the presence of seawater below ground, led to difficulties on-site



Preprufe being installed below the slab

PRODUCTS USED

Preprufe® 300R
Bituthene® Liquid Membrane
Bituthene® 8000
Bitushield™

CREDITS

Client: Rezydent S.A. (Poland)
Main Contractor: Allcon S.A. (Poland)
Constructor: Studio R (Poland)
Architect: Horus Firma Architektoniczna Sp. z o.o. (Poland)
Subcontractor/ Applicator: Bauhaus Sp. z o.o. (Poland) & Allcon S.A. (Poland)

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