

FLEXCRETE ARE ON ANOTHER LEVEL

When a fast-drying and long-lasting flooring protection system was needed for a car park in Finland, Flexcrete's self-levelling cementitious flooring proved the ideal solution.

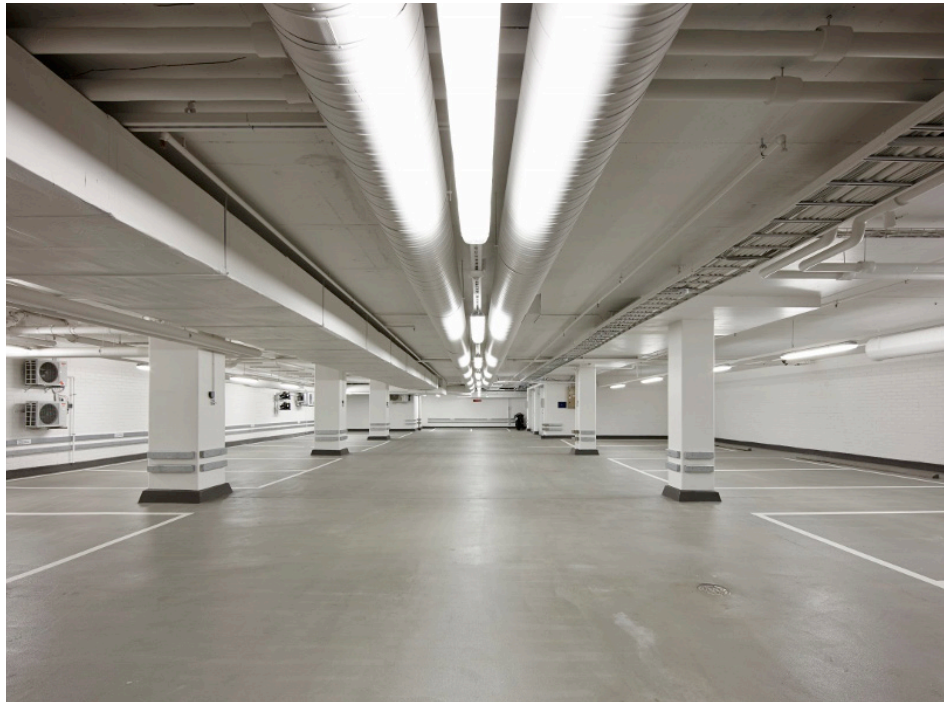
The application of a self-levelling, water-based cementitious flooring system, for a major refurbishment project in Finland, has demonstrated its ability to protect concrete floors in highly demanding environments.

Flexcrete's Cemprotec E-Floor was specified for application to the 600m² underground parking hall floor at Bronda Corner,

a mixed-use building situated in the heart of downtown Helsinki. With origins dating back to 1840, Bronda Corner was demolished in the 1970s to make way for a new building designed by architect Keijo Petäjä. Built in 1975, a complete renovation of the building was recently carried out, with only the original façade being maintained.

Cemprotec E-Floor is manufactured by Flexcrete Technologies, based in Leyland, North West England, and was put forward for the project by Flexcrete's Finnish distributor, PiiMat Oy. Applied at just 2mm and incorporating the benefits of copolymer and epoxy resin technologies into a self-smoothing, water-based, cementitious system, Cemprotec E-Floor is designed for the waterproofing and protection of both internal and external concrete floors where ultimate protection is required.

The renovation was project-managed by Trium Architects Ltd. The objective was to refurbish the structure to a very high standard from top to bottom to help encourage tenants to take space



properties quickly, Cemprotec E-Floor is ideal for fast-track new build and refurbishment projects and is designed to speed up the construction process. It can be applied without risk of osmotic blistering to green concrete, wet substrates or floors with no effective waterproofing membrane and is CE marked in

in the newly-refurbished building. Part of the refurbishment included coating the parking hall floor with a proven wear-resistant product that met the client's fire classification requirements as specific Euroclass fire codes are rigorously applied in Finland.

Cemprotec E-Floor was specified for the project due to its exceptional wear characteristics and its Euroclass fire rating to the optimum level of A2FL-s1. Cemprotec E-Floor provides total waterproof protection with excellent resistance to damage from deposits of de-icing salts, chloride ion penetration, aggressive chemicals, impact and abrasion from studded tyres. In Finland, it is mandatory that vehicles must be fitted with winter tyres, normally studded tyres, on all wheels from December until the end of the following February to cope with the harsh conditions. Cemprotec E-Floor is robust enough to withstand heavy vehicular and construction traffic without deterioration.

Due to its rapid-curing nature and ability to develop key physical

accordance with BS EN 1504, the pan European standard for concrete repair, in addition to BS EN 13813 as a high-performance floor screed.

The water-based composition of Cemprotec E-Floor was a critical consideration for this project, as it releases no hazardous solvents or strong odour, ensuring absolutely no disruption to other trades taking place during the application. A slip resistant finish was achieved by casting aggregate into the steel grey Cemprotec E-Floor coating and parking bays were colour coded in white to achieve a highly attractive finish. The product was applied by SPT-Painting Oy.

The refurbishment work was extremely successful, and Hannes Snellman, a leading Nordic law firm, has since moved into the building and is the primary tenant. Bronda, a brasserie restaurant headed up by Helsinki's culinary super duo Tomi Björk and Matti Wikberg, has also taken space in the building.

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