

CASE STUDY

Structural Movement Joints

MAKERS

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PROJECT

Dundrum Shopping Centre,
Dublin, Ireland

STRUCTURE

Multi-storey Car Park

CLIENT

Dundrum Retail Centre

CONTRACT

Located in Dundrum on the south side of Dublin, Dundrum Shopping Centre is anchored by House of Fraser, Marks & Spencer, Penneys and Tesco, including Havey Nicols and Hamleys. It has 35 restaurants, a cinema complex and an award winning Theatre with an annual footfall of 18.2 million and covering almost 140,000m² of floor space and over 3,400 car parking spaces.

The existing expansion joints within the car park levels were failing and were no longer fit for purpose allowing water to seep through with the risk of damage to the structure. The joints had come to the end of their design life and required replacement throughout the deck levels.

Makers were initially instructed back in 2012 to carry out joint replacement works throughout 4 levels of the car park which consisted of 1,000 linear metres of Emseal DSM Watertight Joints throughout various areas on each level.

Further phases were planned to ensure all failed joints throughout the car park areas were replaced, and the 2nd phase was to install 140 linear metre of Emseal TM Gland Joints. This was on the top deck of the car park which also included the road surface areas to New Street and the Tesco Service Yard.



Before



Before

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Registered in England No: 6348341 Registered Office as above

Association Membership



Accreditations



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Before



Before



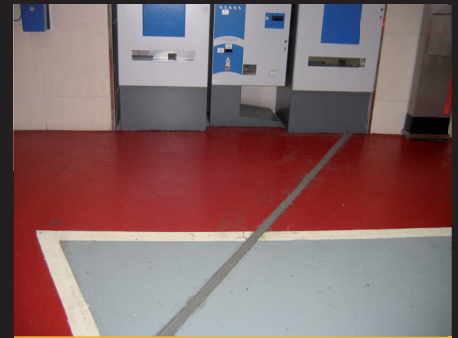
Before



After



After



After

The last phase was to install 115 linear meters of Emseal TM Gland Joints and 35 lm of Emseal SJS joints to lobby areas. The top deck; level 3, required new joints to two different areas of the car park and the installing of Emseal TM Gland Joints. The existing macadam surface was removed either side of the old existing Radflex joint to allow for its removal. Preparation to the existing concrete plinth was carried out and the removal of the Conidec membrane. A new blockout was cast on top of the existing concrete plinth to accept the Emseal TM Gland. A fully fleeced Triflex system was installed onto the new blockout and dressed onto the existing membrane. The new trafficable system was installed on top of the blockout and macadam placed. The Emseal TM gland was then installed into newly formed joint opening.



During



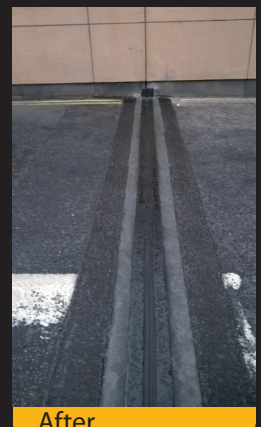
During



After



After



After

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