

The E-on Call Centre Rayleigh, Essex



Energy company E-on has its Headquarters and 24 hour Call Centre building in Rayleigh, Essex. The red brick facade also features contrasting precast white concrete units with a fluted design and a decorative open textured finish.

Unfortunately this surface had carbonated to the depth of the steel reinforcement, particularly at the base of the indents, where low cover was also identified. This had allowed the steel to corrode, with subsequent cracking and spalling, which gave concerns not only for the deteriorating concrete, but also of potential danger to the buildings occupants.

Gunite Eastern Limited were contracted to survey, evaluate and solve the problems and they selected a complete concrete repair and protection system from Remmers.

As the Call Centre works 24/7, avoiding the potential disruption

of business due to noise, was a major factor in selecting the most appropriate solution. The answer was a combination of Gunite Eastern's expertise with their almost silent hydro demolition equipment, which was used to prepare the surfaces, break out damaged areas and clean the exposed corroding steel. Followed by Remmers fast curing Betofix RM Mortar which allows rapid restoration, even building up in layers overhead without prolonged waiting times. Uniquely it can also be feather edged, eliminating the need for additional costly (and potentially noisy) angle cuts for the repairs.

Additionally to minimise the actual volume and extent of concrete breakout and removal, Remmers Migratory Corrosion Inhibitor was applied. This penetrates the concrete and migrates to the surface of the steel, where it actually reduces the rate of corrosion and extends the time to corrosion, even in carbonated concrete.

Finally all of the exposed concrete surfaces were protected with Remmers Elastoflex, a crack bridging, anti carbonation, coloured waterproofing coating.

Project Details

Application:

Concrete Repair and Protection

Market:

Commercial - Offices

Client:

E-on Limited

Contractor:

Gunite Eastern Limited

