

Kemnal Technology College Bromley, London



Kemnal Technology College is an all-ability Secondary School for Boys' aged 11-18 years, in the London Borough of Bromley.

This reinforced concrete framed, Grade II Listed structure has brick infill panels and metal windows, with precast concrete surrounds on the facades. It was built in 1938 following a style sympathetic to the 'Art Deco' movement of the time.

Almost 70 years later the structure was in need of major refurbishment. Folcrete Restoration Services Limited were awarded the project to carry out the refurbishment works, involving replacement of the asphalt roofing, replacement of the windows, plus repair and protection of all of the exposed concrete surfaces. The majority of the works also had to be completed during the school summer holidays.

The precast concrete window heads, mullions and sills had all deteriorated. This was due

to carbonation having finally reached the reinforcement allowing corrosion, cracking and spalling. The edges of the insitu roof slab had also suffered similar damage plus water ingress from above due to the deteriorated asphalt.

The roof waterproofing asphalt and the windows were replaced, then the concrete was repaired using a complete Remmers system. This included steel reinforcement primer and repair mortars, with Betofix RM Mortar for overhead repairs to the roof slab. This was followed by anti-carbonation and waterproofing protection to all of the concrete surfaces with Remmers Concrete Acrylic coating.

During their preparatory works, Folcrete discovered that when originally built the concrete window mullions had been painted green, but this had subsequently been overpainted in white. So at the request of the Client the original green shade was colour matched

by Remmers and the whole facade was restored to its original appearance.

Finally the perimeter window joints were all resealed using Remmers Silicone Sealant.

Project Details

Application:

Concrete Repair and Protection

Market:

Education - Schools

Client:

Kemnal Technology College

Contractor:

Folcrete Restoration Services Limited

