

Rainbow House

Case study

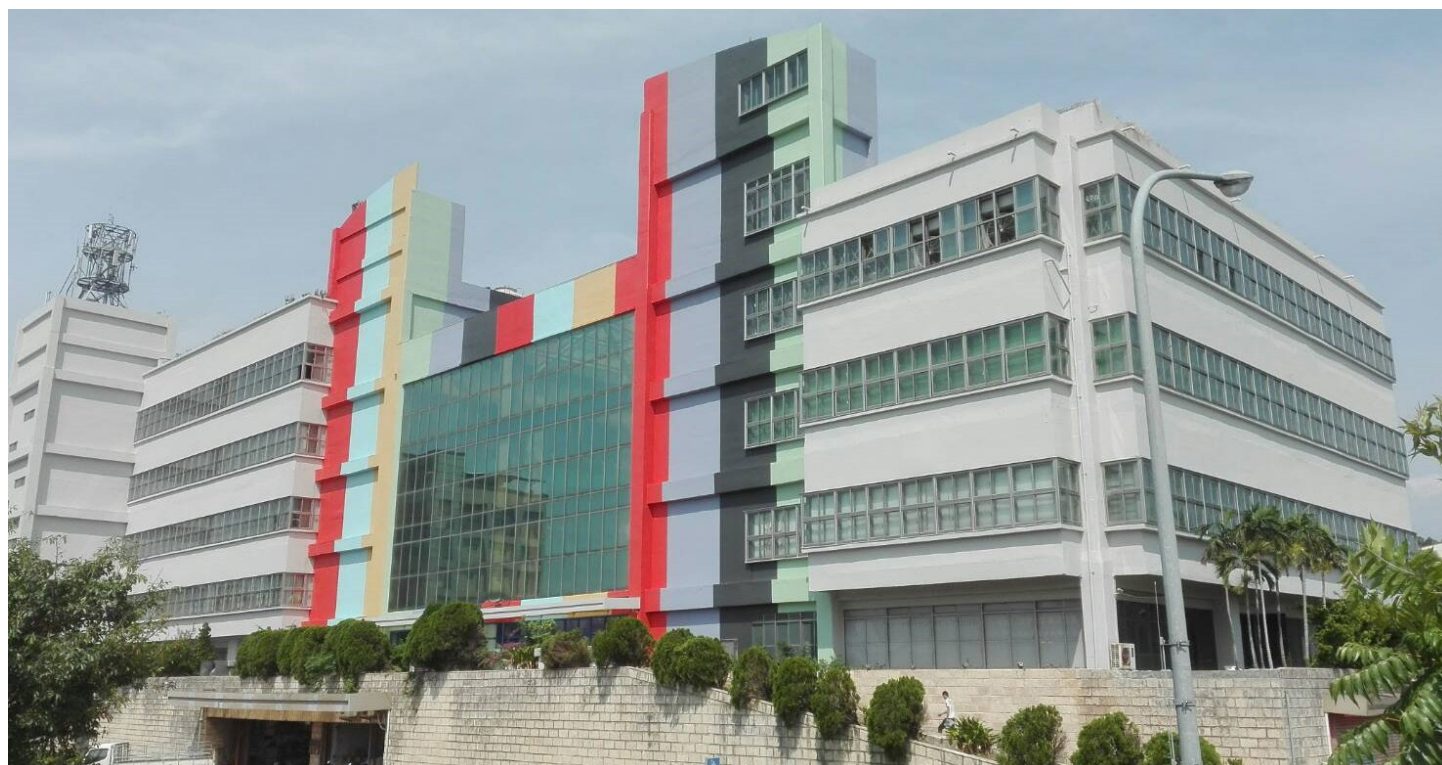
Focus products: Intercrete® 4811, Intercrete 4890

Location: Taipei, Taiwan

Client: Tong-Fong Brush Factory Co Ltd

Distributor: Parallel Industrial Co., Ltd

Summary: Coating and protection of 10,000m² of external walls in seven different colours



Background

Rainbow House is a prominent office and manufacturing building in Taipei, Taiwan. The reinforced concrete building is seven storeys high with two storeys located underground. It was originally constructed in 1976 by the Tong-Fong Brush Factory Co Ltd, the world's largest manufacturer of hairbrushes. In 1990 the Tong-Fong Brush Factory Co Ltd relocated to China (PRC), subsequently leasing the space in Rainbow House to various other companies. The building's exterior had never been renovated until 2017.

An anti-carbonation coating was sought for application to the external walls of the building. In order to make a design statement, a protective coating was needed in a range of colours befitting of the name 'Rainbow House.'

The solution

Intercrete's distributor in Taiwan, Parallel Industrial Co., Ltd, recommended the use of Intercrete 4890 in order to enhance and protect the exterior of the building. A total of seven colours were produced in Intercrete 4890 to BS RAL colours in shades of light grey, steel grey, red, mint green, peach, sage and sky blue. The complete surface area of the exterior walls was cleaned with high pressure water jetting equipment before the surface was

primed with an airless spray coat of Intercrete 4811. Two coats of Intercrete 4890 were then applied by airless spray to achieve a high quality finish.

Intercrete 4890 is a rapid drying, minimal VOC, elastomeric water-based coating with an attractive smooth, matt finish. Able to extend the life expectancy of both newly constructed and existing buildings, it has a waterborne, cost-effective, low hazard formulation and is non-toxic, non-tainting and ultra-low odour. Due to its fast drying properties, two coats can be applied on the same day even in inclement weather conditions. It incorporates an active in-film fungicide which inhibits the growth of mould, fungi and lichens and remains unaffected by exposure to direct sunlight, ensuring buildings maintain a bright, clean appearance for many years. It is ideal for the external decorative protection of facades, soffits and elevations of structures in temperate and tropical climates and due to excellent fire performance characteristics, is also suitable for internal use.

Intercrete 4890 provides excellent protection against carbonation and water ingress. Its vapour permeable nature allows damp substrates to breathe and dry out without blistering of the coating. It is CE-Marked in accordance with the demands of EN 1504 Part 2 and is available in a range of both standard and special colours.