



Proteus Waterproofing

Case Study: Cold-Melt®

Built Up Roof System: Battersea Dogs & Cats Home, London



Project Brief

Battersea Dogs and Cats Home in London, the best-known animal sanctuary in the world, is currently undergoing the biggest development in its 154-year history - a £5million scheme delivered by main contractor, Sir Robert McAlpine.

The development will bring the charity's existing buildings and facilities into the 21st century and will include a new build, state of the art veterinary hospital which will be protected by an innovative new waterproof membrane – Cold-Melt® from Proteus – a seamless application designed to work in harmony with the roof infrastructure and so tough that it has been BBA certified to last for the lifetime of the building.

Key Requirements: Quality Control

An integral part of this transformation is the built up roofing system of 1,200 square metres of Cold-Melt®. Applied by the Proteus Licensed Contractor, a 5 layer built up system was employed to offer a bespoke specification tailored to the client's needs and budget.

The built up system consisted of a layer of Cold-Melt® Proteus' own innovative, cold-applied liquid membrane, over which an insulation layer of Pro-Therm XPS was laid. The Licenced Contractor then added a separator sheet of Proteus Low-K followed by an attenuation mat and then three different finishes in three different areas of the roof – paving slabs, a green roof and decking.

Key Requirements: Health & Safety

Proteus' liquid applied systems are cold installed and therefore negate all the elements of fire risk when working in confined spaces. Of particular importance was the low odour that Cold-Melt® exhibits, meeting all the health and safety criteria necessary to protect both the Licenced Contractor's operatives and the dogs and cats home's residents.

Key Requirements: Long term performance

Cold-Melt® incorporates recycled rubber-crumb and other organically grown products and when covered, creates an elastomeric, seamless and cold applied membrane which has a life expectancy longer than the design life of the building on which it is installed.

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