

CASE STUDY:
BLUECOATS SCHOOL,
OLDHAM, UK

JUTA



TITANTECH

GP[®]5 provides a durable solution for large commercial developments

JUTA designed and delivered a cost-effective ground gas protection solution for a brand new school in Oldham.



GP[®]5
JUTA 300TT
JUTA WP SAM
PD1700

Material & Volume

GP[®]5 - 3500m²

JUTA 300TT -
3500m²

JUTA WP SAM -
1500m²

PD1700 - 1000m²

Date: June 2022

Specialist Installer

Water8 Solutions

Main Contractor

Wilmott Dixon
Construction

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Following the demolition of a former Sainsbury's supermarket in Oldham, which was located on a brownfield site close to Oldham Leisure Centre, Wilmott Dixon Construction were appointed to build a brand new school for the area called Bluecoats School.

Inspection of the brownfield site in Oldham identified that ground gas protection measures were necessary to protect the school staff and pupils from ground gas present in the area. Wilmott Dixon Construction worked with specialist contractors Water8 Solutions to deliver a cost-effective ground gas protection solution.

JUTA UK were approached during the planning and construction phase of the development of the new Bluecoats School in Oldham. JUTA UK were asked for their advice on supplying and fitting a suitable gas protection membrane solution on a brownfield site that required ground gas protection measures.

As experts in the design, manufacture and installation of ground gas protection products, JUTA UK were on hand to support Water8 Solutions and Wilmott Dixon Construction to design and build a suitable school building, with the necessary protection to keep school staff and students safe.

Our GP®5 gas barrier is a multi-layer composite of polyethylene that offers exceptional resistance to the passage of ground gas and organic vapours, particularly on brownfield sites such as this one. The GP®5 solution is also designed to act as a high-performance DPM product that suits a wide array of applications.

One such application that the GP®5 is suitable for is to protect from ground gas and organic vapours in areas affected by carbon dioxide and methane, working in accordance with BS 8485:2015 & A1:2019 and NHBC guidance. GP®5 also works to deliver superior protection on radon affected sites, delivering protection from radon gases in accordance with BRE211:2015, whilst also delivering damp protection in accordance with the requirements of Building Regulations Part C.

In addition to this, GP®5 gas barrier membrane can be used on VOC contaminated sites, however, a site specific assessment is required. To find out more about GP®5 and its suitability on VOC contaminated sites, speak to the team at JUTA UK by calling +44 (0)1772 754 177 or email info@juta.co.uk.



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Russell Samuels, Director at Water8 commented:
“Working with JUTA UK and their GP® membranes is efficient and effective. They are easy to work with and provide everything we need in a timely manner, at a seriously competitive price point.”

Here at JUTA UK, all of our products are tested by world leading third-party manufacturers and are independently accredited and certified. This means that we are able to quickly engage with geo-environmental engineers and architects to provide the most relevant information and justifications to assist with product approvals and regulations.

Thanks to our rigorous commitment to product quality, the GP®5 ground gas membrane solution is compliant with a huge array of industry leading standards, including:

- CE Mark - EN 13967:2012
- NHBC Standards Compliant
- BS 8485:2015 & AI 2019 Accordant
- BBA Certification 20/5728
- UKCA
- UKNI

Our commitments to delivering a high-quality product ensures that our products have a long lifespan, ensuring long-term life spans and high levels of cost effectiveness.

We understand that quality workmanship is critical to the success of any protective barrier installation. This is why we worked with Water8 Solutions, a specialist installer, to fit the GP®5 gas membrane barrier. All installation works were then checked and verified by an independent party to ensure that the solution aligned with relevant planning conditions.

The GP®5 ground gas membrane solution was used in combination with JUTA 300TT, a non-woven geotextile used for separation, filtration and protection, alongside JUTA WP SAM; a waterproof, self-adhesive and bituminous membrane that is used to waterproof any underground structure, whilst preventing the ingress of RADON gases. To finish the project, PD1700 was used. This high-compressive strength HDPE drainage core is used in combination with ground gas barriers to provide protection and drainage in tanking applications.

By delivering a range of products that compliment each other, JUTA UK were able to provide a comprehensive solution for the development of Bluecoats School that was not only cost effective, but highly efficient.

