

Private Home – Hemingfield Road

Barnsley, England (2012)

BACKGROUND

The design for this high-end home in Barnsley, England included an indoor swimming pool with balance tank and deck-level channel in the basement. The homeowner's design called for a fair face finish for the concrete.

The client also asked that the below grade concrete be poured in three pours to reduce joints and speed up the above grade construction. The three concrete pours included the pool slab, pool walls with basement slab and then the basement walls.

Due to the unique concrete pour and increased construction schedules traditional membranes would not be suitable to waterproof the project.

SOLUTION

Kryton's Krystol internal Membrane (KIM) Waterproofing Admixture was selected for the waterproofing in the basement and pool. By using KIM the team was able to install the external insulation while the ground floor was being constructed enabling backfilling of the site within two weeks of pouring the exterior concrete walls.

Pouring 60 meters (197 feet) of lineal wall is not a usual construction practice as there is a high risk of shrinkage and cracking, but by adding KIM to the concrete mix they were able to do this without the risk of cracking and water ingress.

160 cubic meters (209 cubic yards) of concrete in the pool and basement were waterproofed with KIM concrete waterproofing admixture. 100 meters (328 feet) of joints were waterproofed using Kryton's Krystol Waterstop System and 160 tie holes were filled and waterproofed with Krystol Bari-Cote, Kryton's fast-setting waterproof grout.

The client was very pleased with the finished look as well as saved time and costs of using KIM treated concrete.

DEVELOPER:

Premier Pre-cast Solutions

ARCHITECT:

E2A Designs Ltd.

CONTRACTOR:

Face Structures Ltd.

READY-MIX:

Lafarge

APPLICATOR:

Oranmore Environmental Services Ltd.

DISTRIBUTOR:

Fernco Environmental

PRODUCTS:

Learn more at kryton.com
 Krystol Internal Membrane™ (KIM®)
 Krystol® Waterstop System
 Krystol Bari-Cote™



Basement and pool area under construction.



Close to completion of the home.