PROVEN PERFORMANCE
UNITED PLASTICS, MOUNTAIN ASH
TOPROCES
**Mid Glam Construction** were appointed by United Plastics who run a precision injection moulding facility in Rhondda. They were asked to excavate and prepare a base in the heart of the working factory to take 2 new high pressure injection moulding machines.

**THE CHALLENGE**
The challenge was two fold – install a concrete that would give strength capable of accommodating the equipment within as short a time frame as possible and then provide a concrete capable of taking the forces of the two machines in operation.

Both presses were mounted on feet and the individual point loading was in excess of 120 tonnes. The employed consultant engineer had designed the base on the proviso that the strength would be measured at 28 days to assess suitability for machine installation.

United Plastics couldn’t afford to wait that long and wanted to get them running earlier.

**OUR SOLUTION**
In order to find a solution to this, Tarmac suggested the use of Toproc ES, a high performance concrete suitable for use in industrial, commercial and infrastructure construction where high early strength is required.

Toproc ES is a cohesive concrete with a dense micro structure and improved bond between paste and aggregate imparting benefits including high, early and ultimate strength, reduced permeability and increased durability.

Mid Glam had experience of the product on other local contracts so this solution allowed them to be confident that the machines could sit on the slab earlier than planned and the client confidence that the material would withstand the loadings.

88.7 m³ of Toproc ES which achieved in excess of 50N at 2 days was supplied. This allowed the heavy equipment to be off loaded, crane lifted and seated onto the Toproc ES in less than 7 days, a 21 day improvement on the original design.

United Plastics were delighted that they could start utilising the expensive plant earlier, increasing productivity and quality.

For more details contact toproc@tarmac.com or call 0800 1218 218

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