

ULTIMATE EXPERIENCE

*TOPROC RAPID. WIND TURBINE FOUNDATION PAD, FONTENAY
THE ULTIMATE HIGH EARLY STRENGTH CONCRETE*



**LAFARGE
TARMAC**

READYMIX CONCRETE

ULTIMATE STRENGTH

The high early strength of Toproc Rapid 48hr ensured that the construction of the turbine could continue on schedule within 48 hours of the foundation pad being poured.

Product TOPROC RAPID 48HR

Main Contractor GTM

Project WIND TURBINE FOUNDATION PAD, FONTENAY

Completion JULY 2010

TOPROC RAPID 48HR

A high early strength concrete allowing the opportunity to speed up the construction process and increase productivity.

THE CHALLENGE

The initial stages of construction for a wind turbine involves the pouring of the foundation pad. The challenge is that this needs to be accomplished in one go to ensure there are no construction joints. A ten-tonne cylinder is then clamped on to the pad at three anchor points. This construction is then used as the base for the stem of the turbine tower, with the number of stems depending on the height of the wind turbine. Lafarge Tarmac was appointed by GTM (a Vinci subsidiary) to provide the concrete for the pouring of the foundation pad for a wind turbine at Fontenay in France.

OUR SOLUTION

Following consultation on the specifications for the strength of the concrete between the client and the local Lafarge Tarmac team, the use of Toproc Rapid 48hr to reach 30N/mm² at 48 hours was proposed. This was supplied in one pour as specified and reached the necessary strength within 48 hours so that the two-tonne cylinder could be attached.

RESULTS AND BENEFITS

The foundation pad for the turbine was successfully poured with Toproc Rapid 48hr. There were no construction joints and the concrete reached the specified strength within two days of pouring. This ensured the project was on schedule and allowed the first stem installation as planned.



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It's what Britain's built on.