ULTIMATE EXPERIENCE

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

TOPROC RAPID 48HR
A high early strength concrete allowing the opportunity to speed up the construction process and increase productivity.