



**Strat
more.**

Leading solutions for construction.

FORTA – stronger lasting fibre reinforcing

A CHALLENGING ACCESS ROAD IN A REMOTE AREA

FORTA-FERRO® 54 mm concrete reinforcing fibre
was used for its heavy duty capabilities.



1.0+

3-5

2013

kilometres of driveway

days saved, with reduced set up

and still performing well

The Site

Moureeses Bay, north of Whangarei, New Zealand

The Challenge

The site is just north of Whangarei, in the far north of New Zealand, with outstanding views out over the ocean to the world-renowned Poor Knights Islands. The residential development climbs up from the beach to the high-specification housing. The road is over 1 kilometre long and traverses some very steep terrain. The challenge for the civil contractors was to decide on a form of reinforcing which would accommodate the site's requirements, while managing costs. With a 1 hour delivery time to the site and a requirement for an almost continual number of pours per day, it was obvious that traditional set up processes would not work.

The Solution

Because of the concrete delivery logistics, the steep gradients, the extreme weather patterns in the area and the demands expected of the road, the decision was made to use FORTA FERRO's 54 mm macro-fibre. This meant that no mesh was required, plastic and hardened concrete shrinkage was reduced, impact strength was greatly improved, and fatigue resistance and concrete toughness were assured. This extra heavy-duty fibre also offers maximum long-term durability, structural enhancements, and effective secondary temperature crack control.

A success all-round – so much so that another engineer in the area expressed interest in using the fibre for a similar project with the same demands.