



Ravensdown, Richmond, Nelson: 2012 - 2021

PROJECT DESCRIPTION

Ravensdown site, Lower Queen Street, Richmond near Nelson. Over the years the site has experienced frustration with the lack of durability from standard chip seal and asphalt for the roadways around the site. Constantly and almost on a yearly basis having to repair, dig out and re-lay, reseal and so on.

Large loaders operate on site as well as heavy truck and trailer units, in and out of the various sheds. Carting in and out of the site, especially during peak times, had given the areas a bit of a pounding. They were looking for a solution with durability and minimal maintenance.....

Therefore, concrete reinforced with a macro-synthetic fibre, Forta Ferro, provided the perfect solution. Compared to other means of reinforcing, Forta Ferro offered numerous advantages. Steel mesh would only hold cracked concrete together but wouldn't enhance durability/wear resistance. Steel fibre could be used in this type of application, but the dosage would be reasonably high to provide similar benefits (and there is the chance of unsightly rusting at the surface or puncturing of vehicle tyres due to exposed fibres). Forta Ferro at the right dosage provides equivalent performance to reinforcing mesh or steel fibre. Forta Ferro will not rust, is easier to place and finish, can be pumped more easily, it's easier to mix, provides enhanced abrasion and impact resistance which ultimately gives a more durable concrete surface.

Since 2012 Forta Ferro has been used in slab replacements in a couple of the fertiliser sheds, in the main roadway into the site, the exit ramp from the truck unloading shed joining onto the main roadway and recently a couple of areas around the site that have needed replacing. Forta Ferro has proven its worth over this period of time and will continue to do so for many years to come.

KEY POINTS

- Cost Savings
- Enhanced Performance
- Long-term durability

DETAILS

Date: 2012 to 2021

Location: Richmond, Nelson

Fibre: Forta Ferro[®]

Dosage: 3kg/m³

Concrete Details: Average 150mm thick, 30MPa.

Concrete Supplier: Firth Nelson, Concrete & Metals

Contractor: H & H Concrete

Contact us for more details