



constructive solutions

Coal Terminal Rail Upgrade Port Kembla, NSW

CUSTOMER Port Kembla Coal Terminal
SECTOR Rail
DATE 2015 - 2016

PRODUCTS

- Fosroc Conbextra EP65 Plus
- Fosroc Conbextra HS



Application of Conbextra EP65 Plus

THE PROJECT

Port Kembla Coal Terminal (PKCT) is a key coal exporting facility on Australia's east coast, 72 km south of Sydney. It services two of the nation's richest coal reserves, the southern and western coalfields of New South Wales, exporting high quality coking and steaming coal around the world. The upgrade of the Port Kembla Coal Rail lines is vital to keep operations running smoothly.

The rail lines at the Coal Terminal have been in use for many years and the lines have become uneven through ground settlement, reducing efficient operation. The rail lines needed to be levelled with precision to the correct height. Parchem assisted with product specifications, the pre-site works, trial pour for bearing pad and on-site support. Parchem supplied 12,000 litres of Conbextra EP65 plus and large volumes of Conbextra HS grout.

THE SOLUTION

Each ship coal-loader rail was raised and re-levelled in sections. Some rail lines required temporary under-pinning with high performance cementitious Conbextra HS grout, before final installation of pad style supports using ultra high strength epoxy Conbextra EP65 Plus grout.

Other lines required strip style grouting to the entire underside of the rail length, using high strength, cementitious Conbextra HS grout. Formed control joints were placed at 1.5Mtr centres.

THE BENEFITS

The benefits of using Conbextra HS and Conbextra EP65 Plus for the application, included:

- The high flow ability of Conbextra HS grout to fill the void of the bearing pad and to handle moderate dynamic loads demonstrated excellent results.
- Conbextra EP65 Plus provided a perfect durable grouting solution to handle the heavy dynamic loads expected on the track.
- Early strength gains and convenient installation with Conbextra EP65 Plus grout saved time and assisted in getting the project done quickly thereby significantly reducing the down time.

AU 1800 812 864
fosroc.com.au

NZ 0800 657 156
fosroc.co.nz

Parchem Construction Supplies Pty Ltd
1956 Dandenong Rd, Clayton VIC AUS 3168

Concrete Plus Ltd
150 Hutt Park Road, Gracefield NZ 5010

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