

Project: KCRC East Rail – Lok Ma Chau Line, Contract No. CC1860 Permanent WayProduct: **3M Scotchcast Fiber**

Consultant: KCRC

Main Contractor: Chun Wo-Henryvicy-China Railway Construction Corporation-Queensland Rail JV



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THE KCRC LOK MA CHAU SPUR LINE:

KCRC Lok Ma Chau Spur Line is the second railway link between Hong Kong and the Mainland. The 7.4 kilometers alignment is designed to operate with existing East Rail 12-car trains. The design Axle Loading is 18.3 tones and Maximum Speed is 120 km/hr. All equipment and infrastructure supplied are required to reflect the minimum maintenance and high reliability.

3M SCOTCHCAST FIBERS – THE SOLUTION FOR CONCRETE CRACKINGS:

The difficulty for this project is to control the cracking of concrete beddings due to the Vibration of heavy and speedy train and the Outdoor Weathering Effect.

3M Scotchcast Fiber is chosen to be the solution for its non-rusting property. Moreover, a high fiber volume can be added into the concrete to improve the flexural performance and reduce crack formation. Photo 1: The Track works and the concrete bedding; Photo 2: The **3M Scotchcast Fibers**; Photo 3: No crack is found on the bedding; Photo 4: The Lok Ma Chau Spur Line.