

SIKA AT WORK

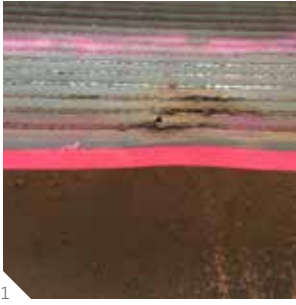
CAPE LAMBERT CONVEYOR BELT REPAIR, AUSTRALIA

SikaBond® R&B-100

BUILDING TRUST



CAPE LAMBERT CONVEYOR BELT REPAIR



PROJECT LOCATION AND SYSTEM USED

Projects Name: Cape Lambert, iron ore loading port

Location: Pilbara, Western Australia

Product used: SikaBond® R&B-100

PROJECT REQUIREMENTS

The Cape Lambert Iron ore loading facility is one of Rio Tinto's ports to export iron ore from its Pilbara mining operations in Western Australia. The port has an annual loading capacity in excess of 180 million tons per year. The ST (steel cord reinforced belts) of the port facilities that handle the transport and loading of the iron ore concentrates to the vessels at berth, show premature wear at the bottom cover, mainly in the area where hot vulcanized splices have been performed. This situation exposes the Cape Lambert facility to unscheduled downtime of the out-and-in-loading facilities. Furthermore, a reduced conveyor belt life cycle may result based on the identified damages. The main contractor Metso wanted to mitigate the above mentioned unscheduled downtime risk by a bottom cover re-build using a fast curing, two component repair solution that has rubber like properties in terms of the elongation and abrasion. All consumables, materials and application equipment had to be provided. The targeted service life of the repair is 12 months with initially 10 splices to be repaired in a first session covering around 3 square meters each with more to come if the methodology proves to be successful.

SIKA SOLUTIONS

Sika, together with the specialised applicator Duratec Australia opted for the SikaBond® R&B-100 conveyor belt repair kit that has been a proven, fast repair solutions for conveyor belts in many mines.

The SikaBond® R&B-100 repair kit comes with all material and tools needed for a fast repair job. After preparing the repair area, the product was mixed and applied. After 20 - 30minutes, the repaired area was grinded and the belt was put back to service, reducing the down-time to a minimum.

PROJECT PARTICIPANTS

Specialized applicator: Duratec Australia

Main Contractor: Metso

Project owner: Rio Tinto

Picture Legend:

Front: Preparing the repair area of the ST belt,

1 Damaged steel cords of the ST belt, note the exposed cords along the entire belt sections where the bottom cover is strongly reduced.

2 Applying the primer to the prepared surface

3 Applying the self-leveling SikaBond® R&B-100 onto the area to be repaired

4 After short curing time the repaired area can be grinded and the belt is back in service

Our most current General Sales Conditions shall apply. Please consult the most current local Product Data Sheet prior to any use.



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