

Intertherm 50



Meets Performance Standards of Boral Cement



As one of Australia's leading cement, lime and fly ash manufacturers, Boral Cement depends on the highest equipment and facility performance standards to achieve production of 1.4 billion kg (1.4m tonnes) of dry process cement each year. That's why in January 2014, owners initiated the replacement of two steel Tertiary Air Duct (TAD) sections three and four, at the plant's Berrima, New South Wales, location.

Each massive duct section - approximately 26 metres (85ft) in length and 3 metres (10ft) in diameter, weighing in excess of 115,000kg (115 tonnes) - had to be rolled, formed, primed, transported to the job site and assembled for top coat application; all within a 14 day turnaround period to minimize production downtime. During fabrication, project contractor, Coastwide Engineering, selected AkzoNobel's durable International® coating Interzinc® 22 as the primer for the flat steel plates, to eliminate the possibility of cracking and peeling during the 'rolling and forming' process.

After assembly at the job site and positioning atop three trestles ranging in heights from 30 to 45 metres (98 to 148ft), the Contractor engaged Programmed Property Services to apply a top coat of Intertherm® 50, also from AkzoNobel's International® protective coating range, which can withstand high heat temperatures of up to 540°C (1,004°F). Using cranes with man baskets to access the highest points of the enormous structures, the single component top coat was applied at 50µm (2 mils) minimum thicknesses for a smooth, defect-free finish.

"International's products met the high standards required for the project," said Todd DeLa Torre, of Coastwide Engineering. **"The coatings' durability, ease of application and high temperature resistance were key contributing factors for success of the project. The client was very happy with the end result."**