

Case Study

Job: New Bridge at APAC Drive (Melbourne Airport), Melbourne, Australia
Total area : 7,000 sqm.
Description: Painting elements include: bridge piers, parapets, beams, abutments and crossheads.
Constructor : McConnell Dowell
Asset Owner : Asia Pacific Airports Corporation



McConnell Dowell was awarded a contract to build a new fly over bridge in 2011 - 2012 to assist the flow of traffic in and out of Melbourne Airport. Part of the contract was to paint the entire bridge with a Vic Roads approved decorative, anti carbonation coating in order to protect the concrete from degradation. Prior to Nanokote Pty Ltd discussing this project with Melbourne Airport, the project completion was to be delayed from August 2012 until November 2012. The reason for this was due to the cold, wet winter that normally impedes the painting process. Most paint systems require temperatures above 10 °C and a relative humidity below 85%. Nanokote Pty Ltd proposed that ProGuard be used on the bridge. ProGuard can be applied directly to damp or dry concrete at temperatures down to 2°C and at relative humidities above 95%. These properties enabled McConnell Dowell to complete their project on time in August 2012 despite very challenging weather conditions where ambient temperatures were 2 - 8°C with a lot of rain.

Nanokote Pty Ltd is a Division of Australian company Micronisers Pty Ltd. The Group of Companies are trail blazers in the field of nanomaterials in Australia. Nanokote specializes in providing finished coating materials in the form of specialised thin films, barrier coatings and functional coatings. We engineer and implement clever ways of enhancing the value of our customer's products which results in our customers increasing their competitive edge. Our products introduce ways of differentiating our customer products enabling premium prices, increased market share and strong returns on investment.