



SIKA AT WORK

7 LEVEL CARPARK

MELBOURNE TULLAMARINE AIRPORT

Products: SikaGrout 212HP, Sikaflex PRO, Sika WT200-P, Sika Curehard 24, CF921 Black Liquid Colour

BUILDING TRUST



PROJECT OVERVIEW & REQUIREMENTS

PROJECT DESCRIPTION

Tullamarine Airport is the primary airport serving the city of Melbourne, and the second busiest airport in Australia. It was opened in 1970 to replace the nearby Essendon Airport. Melbourne Airport is the sole international airport of the four airports serving the Melbourne metropolitan area.

To keep up with the 30 million passengers the airport deals with each year, owners are investing \$10bn over the next 20 years in a variety of expansions to the facilities, including the new 7 level carpark development that Sika is honoured to be part of.

PROJECT REQUIREMENTS

One of the requirements of the project was that of a high quality admixture capable of providing long term resistance to water penetration through the top deck of the carpark. Another requirement was for a cementitious grout with a compressive strength of minimum 70mpa to fill core holes in each concrete panel erected on site. Some panels contained 25-28 cores

During initial discussions between Sika and the Architects, Sika 1+ admixture was specified for the job. At a later date, Sika were approached by Pronto Concrete and advised that product was required at short notice. Given the tight deadlines, Sika WT200-P - our water resisting, crystalline concrete admixture was offered as an available and easy to dispense alternative.



SIKA'S SOLUTION

PROJECT REQUIREMENTS CONT

Special consideration had to be given for the effects of retardation and possible incidence of early age and plastic cracking given the warm to hot and often windy weather conditions. Dose rates related to cementitious contents of the concrete supplied also had to be analysed and considered and with close consultation between Pronto Concrete's Technical Manager, the Engineers and Sika's Technical and Sales staff, Sika WT200-P was ultimately accepted for the project

SIKA SOLUTION

With extremely tight deadlines, Sika's production, logistics, sales and customer service teams pulled together and WT200-P was supplied over a 2 month period using stock from New Zealand, Europe and local manufacture. The product was delivered on time and batched at Pronto's Sunshine plant.

Curehard 24 was also supplied via a distributor and applied to the deck surface by the concreting contractor I & D. The concrete for the floors was 32mpa and 40mpa and was post tensioned. Precast Vehicle safety barriers around the perimeter of the decks were supplied by Westkon and contained Sika Colorflo CF921 black pigment.

PROJECT SIZE

- 4,000m³ of concrete treated with WT200-P admixture
- 180 Pallets of SikaGrout 212HP





PROJECT DETAILS

Date: January - December 2014

Location: Tullamarine, Melbourne, VIC

Main Contractors: Leighton's Contractors

Concreting Contractor: I + D

Sub Contractor: Omni Seal Pty Ltd

Sika Representatives:

Paul Marland (Technical Sales Person - Concrete - Vic),

Jason Jansz (Specifications Consultant - Vic/Tas)

Todd Laidlaw (Technical Sales Person - Contractors - Vic)

Our most current general sales conditions shall apply.
Please refer to the relevant data sheet prior to any use or processing.



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