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AUSTRALIAN SECURITIES EXCHANGE ANNOUNCEMENT

3 May 2021

EDENCRETE®-DENVER INTERNATIONAL AIRPORT UNITED AIRLINES MAINTENANCE HANGAR APRON REPAIR PROJECT

HIGHLIGHTS

- **EdenCrete® used in replacement concrete panels in United Airlines Maintenance Hangar Apron at Denver International Airport**

DETAILS

With the COVID-19 pandemic beginning to subside, United Airlines has commenced to remove and replace a number of 26-year-old concrete panels on the apron of their maintenance hangar at Denver International airport that have deteriorated over time and cracked due to alkali silica reactivity, scaling due to chemical attack from de-icer chemicals, and that are exhibiting wear and tear from the abrasion produced by the aeroplane tyres.

Background

In February 2020, several small sections of concrete on the United Apron in front of the maintenance hangar were removed and replaced with EdenCrete®. After being used for a year, these sections have shown no deterioration and, as a result, EdenCrete® was specified for use in the replacement of the first five adjacent panels as part of an ongoing renovation project.

Repair Project Details

The dimensions of each of the first five replacement panels was 7.62 metres x 7.62 metres, each with a 254 mm thickness (see Figures 1 -3).

The General Contractor, Maynard Construction, specified the use of EdenCrete® at 1 gallon (3.78litres) per cubic yard for the first five panels and the Contractor, Maximum Civil Construction placed approximately 93 cubic yards of concrete in a 38.1m long continuous pour.(see Figure 4). The concrete was supplied by Martin Marietta Materials' Piccadilly plant in Aurora, Colorado and a total of less than US\$2,400 worth of EdenCrete® was required.

Maximum Civil reported that the concrete pumped, placed, and finished exceptionally well. The mix is designed to achieve 4500psi compressive strength at 28 days with no fibre, no welded wire mesh, and no steel reinforcement.

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Future Opportunities

Both the General Contractor and the Contractor have shared that they are very happy with the performance of EdenCrete® to date and the benefits it provides. There are several more of these panels that will be replaced this year and in the future. Currently the General Contractor has said that there is a high probability, that EdenCrete® will be specified in the remaining placements at Denver International Airport, however the timing and total yardage is unknown at this time. With this pending success, there are additional opportunities that could be available with other airlines and Denver International Airport itself, as well as other airports.



Figure 1 Replacement of first concrete panel on United Airlines maintenance hangar apron.



Figure 2 Pouring the replacement concrete panel on United Airlines maintenance hangar apron

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Figure 3 Pouring the replacement concrete panel on United Airlines maintenance hangar apron



Figure 4 Finishing the 5-panel concrete replacement on United Airlines maintenance hangar apron

EdenCrete® Background

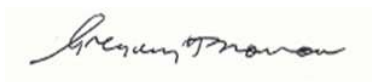
EdenCrete® products are Eden's 100% owned, proprietary carbon-strengthened concrete additives that enhance a wide range of performance characteristics of the concrete including compressive strength, flexural strength, tensile strength, abrasion resistance, reduced permeability, increased modulus of elasticity, reduced shrinkage and that collectively deliver stronger, tougher, more durable and longer lasting concrete.

EdenCrete® is generally used in concrete that incorporates a high percentage of Ordinary Portland Cement (OPC or Portland cement) whilst EdenCrete® Pz is mostly used in concrete that incorporates a high percentage of pozzolans as an alternative cementitious material (including fly-ash and blast furnace slag which are each waste by-products from coal fired power stations and metal smelting respectively, thereby each being treated, as a waste by-product, as having a zero Greenhouse Gas footprint from its production process).

As a result, EdenCrete® Pz in particular has repeatedly shown it is capable of enabling the proportion of the Portland cement in the concrete to be replaced by a percentage of pozzolans with far lower Greenhouse Gas footprints, resulting in a reduction in the Greenhouse Gas footprint generated in the production of the various cementitious components used in the manufacturing of the concrete. Both products have been repeatedly shown to be suitable for use in ready-mix concrete, pre-cast and pre-stressed concrete, shotcrete, pumped concrete and volumetric concrete.

One of the primary target markets for EdenCrete® products is improving the performance of concrete used in the construction and maintenance of concrete roads, bridges, ports, airports, and other infrastructure, particularly where it is subject to heavy wear, freeze/thaw weather conditions, heavy snow falls, and/or high levels of added salt or de-icing chemicals.

Since 2015, EdenCrete® products have been sold in the USA and more recently also in Australia and a growing number of other countries. They have successfully and repeatedly delivered a wide range of benefits when incorporated into concrete that is used in many different applications, including low-rise, medium-rise and high-rise building construction, roads and bridges, ports/marine/coastal applications, airports, bus stations, carparks, water pipes, hardstand areas, waste transfer stations, warehouses, shotcrete applications, stadiums, and pre-stressed and pre-cast concrete products.



Gregory H. Solomon

Executive Chairman

This announcement was authorised by the above signatory.

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