

# WAGNERS

Earth Friendly Concrete (EFC)

# GEOPOLYMER CONCRETE

Wagners have developed and commercialised a geopolymer concrete that offers customers unique durability performance and the highest level of sustainability of any concrete available in the world today.

EFC® has won a number of Australian industry and government awards recognising the performance, innovation and sustainability contribution of this new class of concrete. In 2016 the EFC® heavy duty aircraft pavements at Wellcamp Airport, Australia won first place in the prestigious American Concrete Institute (ACI) Global Excellence in Concrete Awards in the Flatwork category.



TOOWOOMBA WELLCAMP AIRPORT EFC PAVEMENT

## INDUSTRY AWARDS

**2016 American Concrete Institute (ACI) Global Excellence in Concrete Awards**

*Winner - Flatwork category*

*EFC heavy duty aircraft pavements at Toowoomba Wellcamp Airport, Australia*



SLIP FORM PAVER AT TOOWOOMBA WELLCAMP AIRPORT

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## EFC CONTAINS NO CEMENT

Globally, the production of Portland cement is responsible for eight per cent of all manmade greenhouse gas emissions.

EFC® has a geopolymer binder that is made from the chemical activation of two recycled industrial waste bi-products, flyash and slag. **This recycled binder reduces the CO<sub>2</sub> emissions associated with Portland cement.**

## EFC DURABILITY PERFORMANCE

EFC® offers the highest resistance to the common forms of concrete degradation in normal concrete due to the different chemistry of the geopolymer binder.

The following properties mark EFC® as one of the highest performing concretes for extreme durability environments:



High sulphate resistance



High chloride ion ingress resistance



High acid / sewer resistance



Low shrinkage



Low heat of reaction

