

1 September 2025

LARGE-SCALE COMMERCIAL AUSPOZZ™ CONCRETE DEMONSTRATION POUR

Emerging mineral processing technology company Zeotech Limited (ASX: ZEO, “Zeotech” or “the Company”) is pleased to announce that it has completed its largest commercial-scale concrete demonstration pour using its low embodied carbon high-reactivity metakaolin (“metakaolin”), AusPozz™.

HIGHLIGHTS

- Zeotech completes large-scale AusPozz™ commercial concrete demonstration pour of approximately 100 cubic metres (17 truckloads), validating its performance as a high-performance supplementary cementitious material (“SCM”) that can significantly reduce the total binder and embodied carbon of concrete.
- The demonstration used approximately 8 tonnes of the Company’s AusPozz™ product, representing Zeotech’s largest commercial trial to date, and showcased how it is compatible with mainstream concrete production systems.
- The commercial pour demonstrated that AusPozz™ can integrate seamlessly into the concrete supply chain and is compatible with batching plants, transportation methods, pumping systems, and placement techniques.
- The event attracted over 35 influential stakeholders from across the construction and materials sectors, including representatives from Holcim Australia, Cement Australia, The National Transport Research Organisation, Queensland Transport and Main Roads, Boral, Amazon, GHD, Laing O’Rourke, Icubed Consulting, and others, all keen to assess AusPozz™ real-world performance.
- The demonstration has sparked new commercial opportunities, including a proposed 200m³ trial, a windfarm mix design with 50% cement replacement, a potential Memorandum of Understanding (“MOU”) with a global engineering and construction company, and progressing discussions on potential offtake agreements.
- AusPozz™ is seen as a key enabler of carbon reduction targets across the industry due to its capacity to significantly enhance strength development and therefore reduce the total cementitious content of the concrete, which can reduce the overall cost per cubic metre.

Zeotech, Chief Executive Officer, James Marsh commented:

"This commercial-scale pour represents the Company’s most significant demonstration of AusPozz™ and a pivotal milestone on Zeotech’s journey to contribute to the decarbonisation of the built environment sustainably.

The successful deployment of AusPozz™ at scale confirms its compatibility with commercial concrete operations, while highlighting its ability to meaningfully reduce embodied carbon. Importantly, AusPozz™ has also demonstrated the potential to lower costs by reducing the total binder required to achieve performance specifications – a compelling value proposition for broad industry adoption."

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"The strong industry engagement and positive feedback from our demonstration event reinforce AusPozz™ as a high-performance, low-carbon solution for infrastructure and building projects. We are encouraged by the commercial opportunities emerging from this trial and remain focused on advancing these opportunities while accelerating the development of commercial pathways for AusPozz™."

Zeotech, Business Development Manager - Concrete, Peter Tutbury added:

"The commercial-scale pour using AusPozz™ has exceeded expectations, delivering robust validation of our product's performance in real-world conditions. Contractors praised the mix for its ease of placement, screeding, and finishing, noting that while some cementitious blends can react differently with tools or metal, these loads behaved exactly as concrete should. Importantly, we delivered the requested three-hour initial set time, with the mix design aligned to the QLD TMR 40MPa pavement specification (MRTS40). Across 17 truckloads, more than 100m³ was placed over nearly 500m², with no cracking observed after 72 hours."

The overwhelmingly positive feedback, combined with the opportunity to monitor long-term performance at a high-traffic site with over 250 daily truck movements, will provide valuable ongoing data and a strong foundation to support pathways for broader deployment of AusPozz™."

BACKGROUND

Zeotech has completed a commercial-scale concrete slab pour using its low-carbon high-reactivity metakaolin, AusPozz™. The commercial-scale pour has provided further validation of AusPozz™ as a high-performance SCM that can significantly reduce the total binder and embodied carbon of concrete.

The pour totalled 100m³ of concrete (17 truckloads), which was completed over two days and prepared at Holcim Australia's Caboolture batching plant.

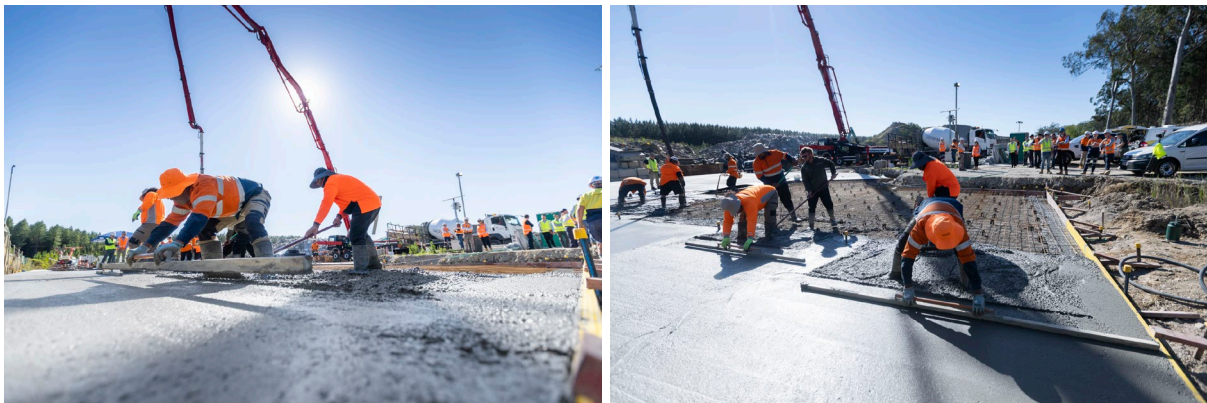


Figure 1: AusPozz™ Commercial-Scale Concrete Demonstration Pour

The demonstration used approximately 8 tonnes of the Company's AusPozz™ product, representing Zeotech's largest trial to date.

The high-abrasion mix design was selected based on the Queensland Department of Transport and Main Roads ("TMR") 40MPa Pavement design (MRTS40), which included AusPozz™ replacement at 20% of total cementitious content (**Table 1**), which has previously been successfully trialled at lab-scale.

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The commercial-scale pour has delivered important real-world validation of AusPozz™, marking a significant milestone in the Company’s commercialisation pathway. The trial has confirmed AusPozz™ can seamlessly integrate into the existing concrete supply chain, demonstrating compatibility with large-scale batching plants, transportation and pumping systems, placement and finishing methods, curing processes, and key environmental conditions such as temperature and humidity.

Table 1: AusPozz™ Mix Design

Description	20% AusPozz™ Mix Design (40Mpa)
Trial Type	Truck
Cement Type	GP
Cement (kg/m ³)	320
AusPozz™ (kg/m ³)	80
Total Cementitious Content (kg/m ³)	400
W/C Ratio	0.5
Aggregate	20mm
Slump	150mm
Target UCS ¹ 7-day (MPa)	>50 ²
Target UCS ¹ 28-day (MPa)	>70 ²

Based on earlier trials, the target unconfined compressive strength (“UCS”) for the AusPozz™ mix design is expected to exceed 50MPa after 7 days and 70MPa after 28 days, significantly outperforming the 40MPa UCS requirement of the Queensland TMR pavement design (MRTS40).

The consistently strong UCS performance achieved by AusPozz™ across a range of concrete mix designs represents a key technical advantage, enabling a reduction in total binder requirements to meet specifications and delivering a clear economic benefit through lower concrete mix costs.

The event was attended by more than 35 influential stakeholders from across the building materials and construction sectors, including asset owners, engineering consultants, and leading cement and concrete producers.

- Queensland Government – Department of Transport and Main Roads (TMR)
- The National Transport Research Organisation (NTRO)
- Holcim Australia
- Cement Australia
- Boral
- Amazon Web Services (AWS)
- GHD
- Laing O’Rourke
- Icubed Consulting
- BG&E

¹ Unconfined Compression Strength

² Concrete cylinder trial results from preliminary trial using 20% AusPozz™ Mix Design (40Mpa) matching the commercial pour



Figure 2: Finishing Work at the AusPozz™ Commercial-Scale Concrete Demonstration Pour

Attendees observed the performance of the AusPozz™ mix design in a large-scale concrete pour, assessing key factors such as workability, setting time, strength development, and durability, while also inspecting the completed slab poured two days earlier.

Feedback was overwhelmingly positive, with strong endorsement of the mix’s handling, workability, and the quality of the finished slab. The demonstration also addressed key questions regarding the suitability of AusPozz™ and its potential applications across a range of concrete uses, while showcasing its potential to reduce both embodied carbon and cost per cubic metre.



Figure 3: Attendees at the AusPozz™ Commercial-Scale Concrete Demonstration Pour

Several attendees have set carbon reduction targets for 2030 and 2050, with AusPozz™ recognised as a key enabler in meeting these commitments by lowering embodied carbon.

Of particular interest was its demonstrated capacity to significantly enhance strength development, enabling a reduction in total cementitious content. This not only accelerates the pathway to lower-carbon concrete, but also provides the potential to optimise the cost per cubic metre through reduced binder requirements to meet specified UCS.

The AusPozz™ demonstration pour was held at the RAW Skips recycling yard in Queensland, Australia. RAW Skips is an Indigenous owned recycling and waste management company specialising in construction and demolition waste.

The newly poured slab is located adjacent to a weighbridge facility, a high-traffic area subject to heavy vehicle loads and high abrasion, with more than 250 truck movements per day.

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This location provides the Company with access to detailed vehicle movement data, enabling long-term evaluation of the AusPozz™ concrete mix performance under demanding operating conditions.

NEXT STEPS

The successful commercial-scale concrete pour demonstration, together with strong engagement from attendees, has generated several emerging commercial and collaborative opportunities currently under consideration by Zeotech, these include:

- A larger 200m³ concrete trial
- A windfarm design mix trial at 50% GP cement replacement with AusPozz™
- Proposal for an AusPozz™ offtake agreement and a MOU with a global engineering and construction company
- AusPozz™ workshops with an asset owner and engineering consultancy to further develop a commercial roadmap for AusPozz™ adoption in large-scale construction projects

Samples of the AusPozz™ concrete were taken throughout the demonstration and will be evaluated by independent testing experts. The results will be available once the test work is completed.

This announcement has been approved by the Zeotech Board.

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About Zeotech

Zeotech Limited (ASX: ZEO) is a team of dedicated people working together to build a future-focused company, leveraging wholly-owned high-grade kaolin resources to produce high-reactivity metakaolin for the low-carbon concrete market and advanced materials for greenhouse gas (GHG) mitigation, such as zeolites for fugitive methane control.

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These forward-looking statements are not historical facts but rather are based on Zeotech's current expectations, estimates, and projections about the industry in which Zeotech operates, and its beliefs and assumptions.

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